

# Common Core Standards

## CORRELATION WITH PROJECT DISCOVERY

### A U.S. Department of Education Validated and Approved Program



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This document provides a correlation with the Common Core Standards to the *Project Discovery* career development curricula. *Project Discovery* integrates academic core content into hands-on career activities.

While the activities in the kits also address knowledge and skills standards in other areas, this document provides a correlation with Reading, Mathematics, and Science. This correlation is provided *per kit* as noted below.

### **ANIMAL CARE**

RFADING/WRITING/LISTENING &	Writing Standards 8
SPEAKING/INFORMATION LITERACY	
SPEAKING/INFORMATION LITERACY	<ul> <li>Text Types and Purposes</li> <li>1. Write arguments to support claims with clear reasons and relevant evidence.</li> <li>a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.</li> <li>b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.</li> <li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.</li> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a concluding statement or section that follows from and supports the argument presented.</li> <li>2.Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content</li> </ul>
	<ul> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style.</li> </ul>
	f. Provide a concluding statement or section that follows from and supports the information or explanation presented.
	Production and Distribution of Writing 4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge 7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. 9.Draw evidence from informational texts to support analysis reflection, and research.
	Speaking and Listening Standards 8
	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.

	<ul> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
	Language Standards 8         Conventions of Standard English         2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.         a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break.         c. Spell correctly.         Knowledge of Language         3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.         a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
	<ul> <li>Vocabulary Acquisition and Use 8</li> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.</li> <li>d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> <li>6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ul>
	Reading Standards for Literacy in Science and Technical Subjects 8         Key Ideas and Details       1.Cite specific textual evidence to support analysis of science and technical texts.         2.Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.         3.Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.         Integration of Knowledge and Ideas         7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).         8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.         9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.
MATHEMATICS	Number and Operations—Fractions 5.NF Use equivalent fractions as a strategy to add and subtract fractions. 1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions

in such a way as to produce an equivalent sum or difference of fractions with like denominators. 2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.
<ul> <li>Measurement and Data 5.MD</li> <li>Convert like measurement units within a given measurement system.</li> <li>1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.</li> <li>Represent and interpret data.</li> <li>2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade</li> </ul>
to solve problems involving information presented in line plots.
The Number System 6.NS Apply and extend previous understandings of multiplication and division to divide fractions by fractions. 1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
<ul> <li>Apply and extend previous understandings of numbers to the system of rational numbers.</li> <li>5. Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.</li> <li>6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</li> <li>a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of a number is the number itself.</li> <li>8. Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate</li> </ul>
<ul> <li>Statistics and Probability 6.SP</li> <li>Develop understanding of statistical variability.</li> <li>1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</li> <li>2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</li> <li>3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.</li> <li>Summarize and describe distributions.</li> <li>4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</li> <li>5. Summarize numerical data sets in relation to their context, such as by: <ul> <li>a. Reporting the number of observations.</li> <li>b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</li> </ul> </li> </ul>
Ratios and Proportional Relationships 7.RP Analyze proportional relationships and use them to solve real-world
<ol> <li>Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.</li> </ol>
<ol> <li>Recognize and represent proportional relationships between quantities.</li> <li>Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</li> <li>Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</li> </ol>

<ul> <li>Geometry 8.G</li> <li>Understand congruence and similarity using physical models, transparencies, or geometry software.</li> <li>1. Verify experimentally the properties of rotations, reflections, and translations: <ul> <li>a. Lines are taken to lines, and line segments to line segments of the same length.</li> <li>b. Angles are taken to angles of the same measure.</li> <li>c. Parallel lines are taken to parallel lines.</li> </ul> </li> <li>2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.</li> </ul>

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### CAREGIVER

READING/WRITING/LISTENING &	Writing Standards 8
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<ul> <li>Ratios and Proportional Relationships 7.RP</li> <li>Analyze proportional relationships and use them to solve real-world and mathematical problems.</li> <li>1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.</li> <li>2. Recognize and represent proportional relationships between quantities.</li> <li>a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</li> <li>b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</li> </ul>

<ul> <li>Expressions and Equations 7.EE</li> <li>Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</li> <li>Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.</li> </ul>	
<ul> <li>Geometry 8.G</li> <li>Understand congruence and similarity using physical models, transparencies, or geometry software.</li> <li>1. Verify experimentally the properties of rotations, reflections, and translations: <ul> <li>a. Lines are taken to lines, and line segments to line segments of the same length.</li> <li>b. Angles are taken to angles of the same measure.</li> <li>c. Parallel lines are taken to parallel lines.</li> </ul> </li> <li>2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.</li> </ul>	

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### **CHILD CARE**

DEADING /W/DITING /LISTENING 9	Writing Standards 8
READING/WRITING/LISTENING &	Writing Standards 5
SPEAKING/INFORMATION LITERACY	<ul> <li>Text Types and Purposes</li> <li>1. Write arguments to support claims with clear reasons and relevant evidence.</li> <li>a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.</li> <li>b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.</li> <li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.</li> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a concluding statement or section that follows from and supports the argument presented.</li> </ul>
	2.Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
	a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.
	<ul> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style.</li> </ul>
	f. Provide a concluding statement or section that follows from and supports the information or explanation presented.
	Production and Distribution of Writing 4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge 7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. 9.Draw evidence from informational texts to support analysis reflection, and research.
	Speaking and Listening Standards 8
	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 8

<ul> <li>topics, texts, and issues, building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others'questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
Language Standards 8         Conventions of Standard English         2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.         a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break.         c. Spell correctly.         Knowledge of Language         3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.         a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing
<ul> <li>the actor or the action; expressing uncertainty or describing a state contrary to fact).</li> <li>Vocabulary Acquisition and Use 8</li> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies. <ul> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> <li>6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ul> </li> </ul>
<ul> <li>Reading Standards for Literacy in Science and Technical Subjects 8</li> <li>Key Ideas and Details <ol> <li>Cite specific textual evidence to support analysis of science and technical texts.</li> </ol> </li> <li>Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.</li> <li>Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.</li> </ul> Integration of Knowledge and Ideas Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table). B. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text. 9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

MATHEMATICS	Number and Operations—Fractions 5.NF
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	in such a way as to produce an equivalent sum or difference of fractions with like denominators.
	2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike
	denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense
	of fractions to estimate mentally and assess the reasonableness of answers.
	Measurement and Data 5.MD
	Convert like measurement units within a given measurement system.
	1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and
	use these conversions in solving multi-step, real world problems.
	Represent and interpret data.
	2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade
	to solve problems involving information presented in line plots.
	The Number System 6.NS
	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
	1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using
	visual fraction models and equations to represent the problem.
	Statistics and Probability 6 SP
	Develop understanding of statistical variability.
	1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the
	answers.
	2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread,
	and overall shape.
	3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values variating a single number.
	Summarize and described distributions
	4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
	5. Summarize numerical data sets in relation to their context, such as by:
	a. Reporting the number of observations.
	b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
	Ratios and Proportional Relationships 7 RP
	Analyze proportional relationships and use them to solve real-world and mathematical problems.
	1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other guantities measured in like or
	different units.
	2. Recognize and represent proportional relationships between quantities.
	a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a
	coordinate plane and observing whether the graph is a straight line through the origin.
	b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional
	relationships.
	Expressions and Equations 7.EE
	Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
	3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers,
	tractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between
	forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

Geometry 8.G
Understand congruence and similarity using physical models, transparencies, or geometry software.
1. Verify experimentally the properties of rotations, reflections, and translations:
a. Lines are taken to lines, and line segments to line segments of the same length.
b. Angles are taken to angles of the same measure.
c. Parallel lines are taken to parallel lines.
2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of
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#### **CLEANING MAINTENANCE**

READING/WRITING/LISTENING &	Writing Standards 8
SPFAKING/INFORMATION   ITFRACY	
	Text Types and Purposes
	1. Write arguments to support claims with clear reasons and relevant evidence.
	a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.
	b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.
	c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
	d. Establish and maintain a formal style.
	e. Provide a concluding statement or section that follows from and supports the argument presented.
	2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
	<ul> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style.</li> </ul>
	f. Provide a concluding statement or section that follows from and supports the information or explanation presented.
	Production and Distribution of Writing
	4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge 7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. 9.Draw evidence from informational texts to support analysis reflection, and research.

Speaking and Listening Standards 8
<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
Language Standards 8
Conventions of Standard English 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break. c. Spell correctly.
Knowledge of Language 3. Use knowledge of language and its conventions when writing, speaking, reading, or listening. a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
Vocabulary Acquisition and Use 8
<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.</li> <li>d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> </ul>
<ol> <li>Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ol>
Reading Standards for Literacy in Science and Technical Subjects 8         Key Ideas and Details         1.Cite specific textual evidence to support analysis of science and technical texts.         2.Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.         3.Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.         Integration of Knowledge and Ideas         7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).         8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.         9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from

	reading a text on the same topic.
MATHEMATICS	<ul> <li>Number and Operations—Fractions 5.NF</li> <li>Use equivalent fractions as a strategy to add and subtract fractions.</li> <li>1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.</li> <li>2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.</li> </ul>
	<ul> <li>Measurement and Data 5.MD</li> <li>Convert like measurement units within a given measurement system.</li> <li>1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.</li> <li>Represent and interpret data.</li> <li>2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots.</li> </ul>
	The Number System 6.NS Apply and extend previous understandings of multiplication and division to divide fractions by fractions. 1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
	<ul> <li>Apply and extend previous understandings of numbers to the system of rational numbers.</li> <li>5. Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.</li> <li>6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</li> <li>a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself.</li> <li>8. Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate</li> </ul>
	<ul> <li>Statistics and Probability 6.SP</li> <li>Develop understanding of statistical variability.</li> <li>1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</li> <li>2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</li> <li>3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.</li> <li>Summarize and describe distributions.</li> <li>4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</li> <li>5. Summarize numerical data sets in relation to their context, such as by:</li> <li>a. Reporting the number of observations.</li> <li>b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</li> </ul>
	Ratios and Proportional Relationships 7.RP Analyze proportional relationships and use them to solve real-world and mathematical problems. 1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.

<ul> <li>2. Recognize and represent proportional relationships between quantities.</li> <li>a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</li> <li>b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</li> </ul>
<ul> <li>Expressions and Equations 7.EE</li> <li>Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</li> <li>3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.</li> </ul>
<ul> <li>Geometry 8.G</li> <li>Understand congruence and similarity using physical models, transparencies, or geometry software.</li> <li>1. Verify experimentally the properties of rotations, reflections, and translations: <ul> <li>a. Lines are taken to lines, and line segments to line segments of the same length.</li> <li>b. Angles are taken to angles of the same measure.</li> <li>c. Parallel lines are taken to parallel lines.</li> </ul> </li> <li>2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.</li> </ul>

This document provides a correlation with the Common Core Standards to the *Project Discovery* career development curricula. *Project Discovery* integrates academic core content into hands-on career activities.

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### FILING

READING/WRITING/LISTENING & SPEAKING/INFORMATION LITERACY	Writing Standards 8 Text Types and Purposes
	<ol> <li>Write arguments to support claims with clear reasons and relevant evidence.</li> <li>a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.</li> </ol>
	b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.
	c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
	<ul> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a concluding statement or section that follows from and supports the argument presented.</li> </ul>
	2.Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
	<ul> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style.</li> </ul>
	f. Provide a concluding statement or section that follows from and supports the information or explanation presented.
	Production and Distribution of Writing 4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge 7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. 9.Draw evidence from informational texts to support analysis reflection, and research.

	Speaking and Listening Standards 8
	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly. a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.
	b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed
	c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.
	d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.
	Language Standards 8
	Conventions of Standard English 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break. c. Spell correctly.
	<ul> <li>Knowledge of Language</li> <li>Use knowledge of language and its conventions when writing, speaking, reading, or listening.</li> <li>a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).</li> </ul>
	Vocabulary Acquisition and Use 8
	<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries.</li> </ul>
	thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech. d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).
	6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.
MATHEMATICS	The Number System 6.NS Apply and extend previous understandings of multiplication and division to divide fractions by fractions. 1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
	Statistics and Probability 6.SP
	Develop understanding of statistical variability.
	1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
	2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.
	3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.

Summarize and describe distributions.
4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
5. Summarize numerical data sets in relation to their context, such as by:
a. Reporting the number of observations.
b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
Define and Dependence Deletions 7 DD
Railos and Proportional Relationships 7.RP
Analyze proportional relationships and use them to solve real-world and mathematical problems.
i. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units
2. Recomize and represent proportional relationships between quantities
a Decide whether two quantities are in a proportional relationship e.g. by testing for equivalent ratios in a table or graphing on a
coordinate plane and observing whether the graph is a straight line through the origin.
b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional
relationships.
Expressions and Equations 7.EE
Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers,
fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between
forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.
Coometry 8 C
Geometry 8.6
Understand congruence and similarity using physical models, transparencies, or geometry software.
<ol> <li>verify experimentally the properties of rotations, reflections, and translations.</li> <li>Lines are taken to lines, and line ecomposite to line ecomposite of the composite</li> </ol>
a. Lines are taken to innes, and inne segments to inne segments of the same length.
b. Angles are taken to angles of the same measure. Description:
c. Parailei lines are taken to parailei lines.
2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of
rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.

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### **FOOD SERVICE**

READING/WRITING/LISTENING &	Writing Standards 8
SPEAKING/INFORMATION LITERACY	
-	Text Types and Purposes
	1. Write arguments to support claims with clear reasons and relevant evidence.
	a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and
	evidence logically. h. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding
	of the topic or text.
	c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and
	evidence.
	u. Establish and maintain a formal style.
	e. I tombe a concluding statement of section that follows from and supports the argument presented.
	2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection,
	organization, and analysis of relevant content.
	a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include
	charts tables) and multimedia when useful to aiding comprehension
	b Develop the train with relevant well-chosen facts definitions concrete details quotations or other information and examples
	c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concerts
	d. Use precise language and domain-specific vocabulary to inform about or evaluate the topic
	e. Establish and maintain a formal style
	f. Provide a concluding statement or section that follows from and supports the information or explanation presented
	Production and Distribution of Writing
	4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge
	7 Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and
	denerating additional related focused questions that allow for multiple avenues of exploration
	9 Draw evidence from informational texts to support analysis reflection, and research

Speaking and Listening Standards 8
<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others'questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
Language Standards 8
Conventions of Standard English 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break. c. Spell correctly.
Knowledge of Language 3. Use knowledge of language and its conventions when writing, speaking, reading, or listening. a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
Vocabulary Acquisition and Use 8
<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> <li>6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ul>
Reading Standards for Literacy in Science and Technical Subjects 8
Key Ideas and Details 1.Cite specific textual evidence to support analysis of science and technical texts. 2.Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions. 3.Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks. Integration of Knowledge and Ideas 7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g.
<ul> <li>a flowchart, diagram, model, graph, or table).</li> <li>8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.</li> <li>9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.</li> </ul>

MATHEMATICS	Number and Operations—Fractions 5.NF
	Use equivalent fractions as a strategy to add and subtract fractions.
	1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions
	in such a way as to produce an equivalent sum or difference of fractions with like denominators.
	2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike
	denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense
	of fractions to estimate mentally and assess the reasonableness of answers.
	Measurement and Data 5.MD
	Convert like measurement units within a given measurement system.
	1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and
	use these conversions in solving multi-step, real world problems.
	Represent and interpret data.
	2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade
	to solve problems involving information presented in line plots.
	The Number System 6.NS
	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
	1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using
	visual fraction models and equations to represent the problem.
	Statistics and Probability 6 SP
	Develop understanding of statistical variability.
	1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the
	answers.
	2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread,
	and overall shape.
	3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values variating a single number.
	Summarize and described distributions
	4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
	5. Summarize numerical data sets in relation to their context, such as by:
	a. Reporting the number of observations.
	b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
	Ratios and Proportional Relationships 7 RP
	Analyze proportional relationships and use them to solve real-world and mathematical problems.
	1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other guantities measured in like or
	different units.
	2. Recognize and represent proportional relationships between quantities.
	a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a
	coordinate plane and observing whether the graph is a straight line through the origin.
	b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional
	relationships.
	Expressions and Equations 7.EE
	Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
	3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers,
	tractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between
	forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

Geometry 8.G
Understand congruence and similarity using physical models, transparencies, or geometry software.
1. Verify experimentally the properties of rotations, reflections, and translations:
a. Lines are taken to lines, and line segments to line segments of the same length.
b. Angles are taken to angles of the same measure.
c. Parallel lines are taken to parallel lines.
2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of
rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.

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### GREENHOUSE

<ul> <li>a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.</li> <li>b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.</li> <li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.</li> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a concluding statement or section that follows from and supports the argument presented.</li> <li>2.Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection,</li> </ul>
organization, and analysis of relevant content. a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension. b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples. c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts. d. Use precise language and domain-specific vocabulary to inform about or explain the topic. e. Establish and maintain a formal style. f. Provide a concluding statement or section that follows from and supports the information or explanation presented. Production and Distribution of Writing 4. Deduce of explanation of Writing
<ul> <li>A. Produce clear and conferent writing in which the development, organization, and style are appropriate to task, purpose, and audience</li> <li>Research to Build and Present Knowledge</li> <li>7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.</li> <li>9.Draw evidence from informational texts to support analysis reflection, and research.</li> </ul>
Speaking and Listening Standards 8 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 8

<ul> <li>topics, texts, and issues, building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
Language Standards 8         Conventions of Standard English         2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.         a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break.         b. Use an ellipsis to indicate an omission.         c. Spell correctly.         Knowledge of Language         3. Use knowledge of language and its conventions when writing, speaking, reading, or listening.         a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
<ul> <li>Vocabulary Acquisition and Use 8</li> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> <li>6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ul>
Reading Standards for Literacy in Science and Technical Subjects 8         Key Ideas and Details         1.Cite specific textual evidence to support analysis of science and technical texts.         2.Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.         3.Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.         Integration of Knowledge and Ideas         7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).         8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.         9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.

	Number and Operations - Exections 5 NE
MATHEMATICS	Number and Operations—Fractions 5.Nr
	Use equivalent fractions as a strategy to add and subtract fractions.
	1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions
	in such a way as to produce an equivalent sum or difference of fractions with like denominators.
	2. Solve word problems involving addition and subtraction of fractions referring to the same whole including cases of unlike
	depending to the problem interventing deviation models or equiptions to represent the problem. Use here have been added of the problem is the problem.
	deforminants, e.g., by using visual nation models of equations to represent the problem. Use benchmark nations and number sense
	of fractions to estimate mentally and assess the reasonableness of answers.
	Measurement and Data 5.MD
	Convert like measurement units within a given measurement system.
	1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and
	use these conversions in solving multiseten real world problems
	Bonrocont and interact data
	Represent and millipper data.
	2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade
	to solve problems involving information presented in line plots.
	The Number System 6.NS
	Apply and extend previous understandings of multiplication and
	divide fractions by fractions
	division to divide nactions by nactions.
	1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using
	visual fraction models and equations to represent the problem.
	Apply and extend previous understandings of numbers to the system
	of rational numbers.
	5. Inderstand that positive and penative numbers are used together to describe quantities having opposite directions or values (e.g.
	tomporture abayo/bolow zoro objection abayo/bolow soa layol, credits/dabite positiv/pogative objectio darrao' upo positive addite of abayo/bolow zoro objection abayo/bolow zoro object
	reinperative automatic above and above below set is real work and anti-size a level, belowing attraction and be positive and anti-
	regative numbers to represent quantities in real-world contexts, explaining the meaning of o in each situation.
	6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous
	grades to represent points on the line and in the plane with negative number coordinates.
	a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the
	opposite of the opposite of a number is the number itself.
	8. Solve real-world and mathematical problems by graphing points in all four guadrants of the coordinate plane. Include use of
	coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate
	coordinates and absolute value to find distances between points with the same first coordinate of the same second coordinate
	Statistics and Probability & SD
	Statistics and Probability 0.5P
	Develop understanding of statistical variability.
	1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the
	answers.
	2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread,
	and overall shape.
	3. Becognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of
	variation describes how its values vary with a single number
	Sumarize and decently dided vary with a single humber.
	4. Discussional de la constructiones.
	4. Display numerical data in plots on a number line, including dot plots, nistograms, and box plots.
	5. Summarize numerical data sets in relation to their context, such as by:
	a. Reporting the number of observations.
	b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
	Ratios and Proportional Relationships 7 RP
	Analyze proportional relationships in use them to solve real-world
	and methomstical problems
	and matternatical problems.
	1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or
	different units.

<ol> <li>Recognize and represent proportional relationships between quantities.</li> <li>Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</li> <li>Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</li> </ol>
Expressions and Equations 7.EE Solve real-life and mathematical problems using numerical and algebraic expressions and equations. 3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

This document provides a correlation with the Common Core Standards to the *Project Discovery* career development curricula. *Project Discovery* integrates academic core content into hands-on career activities.

While the activities in the kits also address knowledge and skills standards in other areas, this document provides a correlation with Reading, Mathematics, and Science. This correlation is provided *per kit* as noted below.

### **GROCERY CLERKING**

READING/WRITING/LISTENING &	Writing Standards 8
SPFAKING/INFORMATION   ITFRACY	
	Text Types and Purposes
	1. Write arguments to support claims with clear reasons and relevant evidence.
	a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.
	b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.
	c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
	d. Establish and maintain a formal style.
	e. Provide a concluding statement or section that follows from and supports the argument presented.
	2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
	<ul> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style.</li> </ul>
	f. Provide a concluding statement or section that follows from and supports the information or explanation presented.
	Production and Distribution of Writing 4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge 7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. 9.Draw evidence from informational texts to support analysis reflection, and research.

Snaaking and Listoning Standards 8
Speaking and Listening Standards 5
<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
Language Standards 8
Conventions of Standard English 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break. c. Spell correctly. Knowledge of Language
<ol> <li>Use knowledge of language and its conventions when writing, speaking, reading, or listening.</li> <li>a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).</li> </ol>
Vocabulary Acquisition and Use 8
<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> <li>6. Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ul>
Reading Standards for Literacy in Science and Technical Subjects 8
<ul> <li>Key Ideas and Details</li> <li>1.Cite specific textual evidence to support analysis of science and technical texts.</li> <li>2.Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.</li> <li>3.Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.</li> </ul>
<ul> <li>7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).</li> <li>8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.</li> <li>9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from reading a text on the same topic.</li> </ul>

MATHEMATICS	Number and Operations—Fractions 5 NF
MAINEMATICS	Use equivalent fractions as a strategy to add and subtract fractions.
	1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions
	in such a way as to produce an equivalent sum or difference of fractions with like denominators.
	2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike
	denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense
	of fractions to estimate mentally and assess the reasonableness of answers.
	Measurement and Data 5.MD
	Convert like measurement units within a given measurement system.
	1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and
	use these conversions in solving multi-step, real world problems.
	Represent and interpret data.
	2. Make a line plot to display a data set or measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade
	to solve problems involving information presented in line plots.
	The Number System 6 NS
	Apply and extend previous understandings of multiplication and division to divide fractions by fractions
	1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using
	visual fraction models and equations to represent the problem.
	Apply and extend previous understandings of numbers to the system of rational numbers.
	5. Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g.,
	temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and
	negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.
	6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous
	grades to represent points on the line and in the plane with negative number coordinates.
	a. Recognize opposite signs of numbers as indicating locations on opposite sides of of the number line, recognize that the
	8 Solve real-world and mathematical problems by graphing points in all four guadrants of the coordinate plane. Include use of
	coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate
	Statistics and Probability 6.SP
	Develop understanding of statistical variability.
	1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the
	answers.
	2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread,
	and overall snape.
	3. Recognize that a measure of center for a numerical data set summarizes an of its values with a single number, while a measure of
	Variation describes now its values varia with a single number.
	4. Display numerical data in plots on a number line including dot plots histograms and box plots
	5. Summarize numerical data sets in relation to their context, such as by:
	a. Reporting the number of observations.
	b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.
	Ratios and Proportional Relationships 7.RP
	Analyze proportional relationships and use them to solve real-world
	and mathematical problems.
	I. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or
	2 Recognize and represent proportional relationships between quantities
	a. Decide whether two quantities are in a proportional relationship, e.g. by testing for equivalent ratios in a table or graphing on a

esculing to place and cheer include the same is a staright line through the same
coordinate plane and observing whether the graph is a straight line through the origin.
b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional
relationships
Expressions and Equations 7 EE
Solve real-life and mathematical problems using numerical and
algebraic expressions and equations.
3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers,
fractions and decimals) using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between
forms as appropriate; and assess the reasonable of a super using monthal computation and estimation strategies
torms as appropriate, and assess the reasonableness of answers using mental computation and estimation strategies.
Geometry 8.G
Understand congruence and similarity using physical models, transparencies, or geometry software.
1. Verify experimentally the properties of rotations, reflections, and translations:
a Lines are taken to lines, and line segments to line segments of the same length
A cance are taken to engles of the same measure
b. Angles are taken to angles of the same measure.
c. Parallel lines are taken to parallel lines.
2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of
rotations reflections and translations; given two congruent figures, describe a sequence that exhibits the congruence between them

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While the activities in the kits also address knowledge and skills standards in other areas, this document provides a correlation with Reading, Mathematics, and Science. This correlation is provided *per kit* as noted below.

### HAIR CARE AND STYLING

Speaking and Listening Standards 8
<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
Language Standards 8
Conventions of Standard English 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break. c. Spell correctly.
Knowledge of Language 3. Use knowledge of language and its conventions when writing, speaking, reading, or listening. a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
Vocabulary Acquisition and Use 8
<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or determine or clarify its precise meaning or its part of speech.</li> <li>d. Verify the preliminary determination of the meaning of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> </ul>
<ol> <li>Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ol>
Reading Standards for Literacy in Science and Technical Subjects 8         Key Ideas and Details         1.Cite specific textual evidence to support analysis of science and technical texts.         2.Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.         3.Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.         Integration of Knowledge and Ideas         7. Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).         8. Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.         9.Compare and contrast the information gained from experiments, simulations, video, or multimedia sources with that gained from

	reading a text on the same topic.
MATHEMATICS	<ul> <li>Number and Operations—Fractions 5.NF</li> <li>Use equivalent fractions as a strategy to add and subtract fractions.</li> <li>1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.</li> <li>2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.</li> </ul>
	<ul> <li>Measurement and Data 5.MD</li> <li>Convert like measurement units within a given measurement system.</li> <li>1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.</li> <li>Represent and interpret data.</li> <li>2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots.</li> </ul>
	The Number System 6.NS Apply and extend previous understandings of multiplication and division to divide fractions by fractions. 1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
	<ul> <li>Statistics and Probability 6.SP</li> <li>Develop understanding of statistical variability.</li> <li>1. Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.</li> <li>2. Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.</li> <li>3. Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.</li> <li>Summarize and describe distributions.</li> </ul>
	<ul> <li>4. Display numerical data in plots on a number line, including dot plots, histograms, and box plots.</li> <li>5. Summarize numerical data sets in relation to their context, such as by:</li> <li>a. Reporting the number of observations.</li> <li>b. Describing the nature of the attribute under investigation, including how it was measured and its units of measurement.</li> </ul>
	<ul> <li>Ratios and Proportional Relationships 7.RP</li> <li>Analyze proportional relationships and use them to solve real-world and mathematical problems.</li> <li>1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.</li> <li>2. Recognize and represent proportional relationships between quantities.</li> <li>a. Decide whether two quantities are in a proportional relationship, e.g., by testing for equivalent ratios in a table or graphing on a coordinate plane and observing whether the graph is a straight line through the origin.</li> <li>b. Identify the constant of proportionality (unit rate) in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.</li> </ul>
	Expressions and Equations 7.EE Solve real-life and mathematical problems using numerical and algebraic expressions and equations. 3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

Geometry 8.G
Understand congruence and similarity using physical models, transparencies, or geometry software.
1. Verify experimentally the properties of rotations, reflections, and translations:
a. Lines are taken to lines, and line segments to line segments of the same length.
b. Angles are taken to angles of the same measure.
c. Parallel lines are taken to parallel lines.
2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of
rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.

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### MAIL HANDLING

READING/WRITING/LISTENING &	Writing Standards 8
SPEAKING/INFORMATION LITERACY	<ul> <li>Text Types and Purposes</li> <li>1. Write arguments to support claims with clear reasons and relevant evidence.</li> <li>a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.</li> <li>b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.</li> <li>c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.</li> <li>d. Establish and maintain a formal style.</li> <li>e. Provide a conclusion statement or section that follows from and supports the argument presented.</li> </ul>
	<ul> <li>2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.</li> <li>a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g., charts, tables), and multimedia when useful to aiding comprehension.</li> <li>b. Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.</li> <li>c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.</li> <li>d. Use precise language and domain-specific vocabulary to inform about or explain the topic.</li> <li>e. Establish and maintain a formal style.</li> <li>f. Provide a concluding statement or section that follows from and supports the information or explanation presented.</li> </ul>
	Production and Distribution of Writing 4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience Research to Build and Present Knowledge 7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration. 9.Draw evidence from informational texts to support analysis reflection, and research.

	Speaking and Listening Standards 8
	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly. a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion. b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed. c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas. d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.
	Language Standards 8
	Conventions of Standard English 2. Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing. a. Use punctuation (comma, ellipsis, dash) to indicate a pause or break. b. Use an ellipsis to indicate an omission. c. Spell correctly.
	Knowledge of Language 3. Use knowledge of language and its conventions when writing, speaking, reading, or listening. a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
	Vocabulary Acquisition and Use 8
	<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> </ul>
	<ol> <li>Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases; gather vocabulary knowledge when considering a word or phrase important to comprehension or expression.</li> </ol>
MATHEMATICS	<ul> <li>Number and Operations—Fractions 5.NF</li> <li>Use equivalent fractions as a strategy to add and subtract fractions.</li> <li>1. Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.</li> <li>2. Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.</li> <li>Measurement and Data 5.MD</li> <li>Convert like measurement units within a given measurement system.</li> </ul>
	1. Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.

<b>Represent and interpret data.</b> 2. Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots.
The Number System 6.NS Apply and extend previous understandings of multiplication and division to divide fractions by fractions. 1. Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
<ul> <li>Apply and extend previous understandings of numbers to the system of rational numbers.</li> <li>5. Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.</li> <li>6. Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.</li> <li>a. Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of a number is the number itself.</li> <li>8. Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate</li> </ul>
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Expressions and Equations 7.EE Solve real-life and mathematical problems using numerical and algebraic expressions and equations. 3. Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.

Geometry 8.G
Understand congruence and similarity using physical models, transparencies, or geometry software.
1. Verify experimentally the properties of rotations, reflections, and translations:
a. Lines are taken to lines, and line segments to line segments of the same length.
b. Angles are taken to angles of the same measure.
c. Parallel lines are taken to parallel lines.
2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of
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This document provides a correlation with the Common Core Standards to the *Project Discovery* career development curricula. *Project Discovery* integrates academic core content into hands-on career activities.

While the activities in the kits also address knowledge and skills standards in other areas, this document provides a correlation with Reading, Mathematics, and Science. This correlation is provided *per kit* as noted below.

### RETAILING

	Speaking and Listening Standards 8
	Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on <i>grade 8 topics, texts, and issues,</i> building on others' ideas and expressing their own clearly. a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion. b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed. c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas. d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.
	Language Standards 8
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	Knowledge of Language 3. Use knowledge of language and its conventions when writing, speaking, reading, or listening. a. Use verbs in the active and passive voice and in the conditional and subjunctive mood to achieve particular effects (e.g., emphasizing the actor or the action; expressing uncertainty or describing a state contrary to fact).
	Vocabulary Acquisition and Use 8
	<ul> <li>4. Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on <i>grade 8 reading and content</i>, choosing flexibly from a range of strategies.</li> <li>a. Use context (e.g., the overall meaning of a sentence or paragraph; a word's position or function in a sentence) as a clue to the meaning of a word or phrase.</li> <li>b. Use common, grade-appropriate Greek or Latin affixes and roots as clues to the meaning of a word (e.g., <i>precede, recede, secede</i>).</li> <li>c. Consult general and specialized reference materials (e.g., dictionaries, glossaries, thesauruses), both print and digital, to find the pronunciation of a word or phrase (e.g., by checking the inferred meaning in context or in a dictionary).</li> </ul>
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### TABLE SERVICE

READING/WRITING/LISTENING &	Writing Standards 8
SPEAKING/INFORMATION LITERACY	
	Text Types and Purposes
	1. Write arguments to support claims with clear reasons and relevant evidence.
	a. Introduce claim(s), acknowledge and distinguish the claim(s) from alternate or opposing claims, and organize the reasons and evidence logically.
	b. Support claim(s) with logical reasoning and relevant evidence, using accurate, credible sources and demonstrating an understanding of the topic or text.
	c. Use words, phrases, and clauses to create cohesion and clarify the relationships among claim(s), counterclaims, reasons, and evidence.
	d. Establish and maintain a formal style.
	e. Provide a concluding statement or section that follows from and supports the argument presented.
	2. Write informative/explanatory texts to examine a topic and convey ideas, concepts, and information through the selection, organization, and analysis of relevant content.
	a. Introduce a topic clearly, previewing what is to follow; organize ideas, concepts, and information into broader categories; include formatting (e.g., headings), graphics (e.g.,
	charts, tables), and multimedia when useful to aiding comprehension.
	c. Use appropriate and varied transitions to create cohesion and clarify the relationships among ideas and concepts.
	d. Use precise language and domain-specific vocabulary to inform about or explain the topic.
	e. Establish and maintain a formal style.
	Production and Distribution of Writing
	4.Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience
	Research to Build and Present Knowledge
	7. Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and
	generating additional related, tocused questions that allow for multiple avenues of exploration.
	Speaking and Listening Standards 8

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<ul> <li>Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.</li> <li>a. Come to discussions prepared, having read or researched material under study; explicitly draw on that preparation by referring to evidence on the topic, text, or issue to probe and reflect on ideas under discussion.</li> <li>b. Follow rules for collegial discussions and decision-making, track progress toward specific goals and deadlines, and define individual roles as needed.</li> <li>c. Pose questions that connect the ideas of several speakers and respond to others' questions and comments with relevant evidence, observations, and ideas.</li> <li>d. Acknowledge new information expressed by others, and, when warranted, qualify or justify their own views in light of the evidence presented.</li> </ul>
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 Reading Standards for Literacy in Science and Technical Subjects 8
<ul> <li>Key Ideas and Details <ol> <li>Cite specific textual evidence to support analysis of science and technical texts.</li> <li>Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.</li> <li>Follow precisely a multistep procedure when carrying out experiments, taking measurements, or performing technical tasks.</li> </ol> </li> <li>Integration of Knowledge and Ideas <ol> <li>Integrate quantitative or technical information expressed in words in a text with a version of that information expressed visually (e.g., in a flowchart, diagram, model, graph, or table).</li> <li>Distinguish among facts, reasoned judgment based on research findings, and speculation in a text.</li> </ol> </li> </ul>

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