

PROJECT: DISCOVERY

CAREER EXPLORATION CURRICULUM

SAMPLES



education: associates
Job Ready. Life Ready.®

EXCERPTS PROVIDED:

- 1. Pre-Post Test**
- 2. Work Performance Benchmarks**
- 3. First Look at Greenhouse Work**
- 4. Student Instructions**
- 5. Student Instructions: Activity**
- 6. Parent Involvement Brochure**

GREENHOUSE WORK – PRE/POST TEST**ITEM # 1704****Directions:** Read each item and decide which choice best completes the statement or answers the question.

1. Germination tests are performed to determine the:
 - A. amount of sun required.
 - B. number plants needed.
 - C. sprouting ability of seeds planted.
 - D. depth for planting seeds.
2. What item is needed to perform a germination test?
 - A. Soil.
 - B. Filter paper.
 - C. Bacteria.
 - D. Fertilizer.
3. Which of the following measures of soil, peat moss, and vermiculite (perlite) would result in a good soil mixture?
 - A. More soil.
 - B. Equal parts of each.
 - C. More peat moss.
 - D. Less peat moss.
4. Which tool should be used to combine the soil mixture?
 - A. Dibble.
 - B. Trowel.
 - C. Wire strainer.
 - D. Spade.
5. The depth and amount of soil required to plant a seed depends on:
 - A. pot size.
 - B. number of seeds.
 - C. seed size.
 - D. soil mixture
6. Why are seedlings transplanted?
 - A. To transport the plant.
 - B. To provide fresh nutrients and encourage root growth.
 - C. To increase the growth rate.
 - D. To provide fresh nutrients for grafting.
7. What is necessary to transplant a seedling?
 - A. Grafting.
 - B. Loosely covering roots.
 - C. Larger pot.
 - D. New soil mixture.
8. "Propagate" means to _____ new plants.
 - A. support
 - B. separate
 - C. transplant
 - D. grow
9. "Graftage" means placing part of one plant:
 - A. in a soil mixture.
 - B. on another plant.
 - C. in a greenhouse.
 - D. on another vein.
10. What is used to hold together plant parts that are being grafted?
 - A. Wire.
 - B. Sap.
 - C. A rubber band.
 - D. toothpicks.
11. How much do you know about working with plants in a Greenhouse?
 - A. Nothing.
 - B. Very little.
 - C. Some.
 - D. A lot.
12. How prepared are you to make a decision about a career in working with plants in a Greenhouse?
 - A. Not prepared.
 - B. Prepared very little.
 - C. Somewhat prepared.
 - D. Very prepared.

Project Discovery Work Performance Benchmarks

Functional Vocational Performance Evaluation

Directions:

1. Save document with new file name ("Save as" and then rename document with client's name and date).
2. Complete top of form with client's name, trial number (use a new form for each trial), and overall performance rating. If you would like to record the Pre- and Post-test scores from the module, you can record them as well.
3. For each activity task, check under the "Yes" column if student completes the task. Next to the check, you may also assign a number rating (1, 2, 3, or 4) to evaluate performance level for individual tasks. If you prefer to only rate *by activity*, and not by individual task, use the overall performance rating within the activity heading bar.
4. Check under the "No" column if student does not perform the task (or leave blank).
5. Use the "Notes" area to record student interests, accommodations, level of assistance or other pertinent notes when applicable.
6. Remember to save document each time changes are made.

CAREER EXPLORATION BEGINNING: Greenhouse Work

Client's Name: Enter Text Here

Trial number: 1

Overall Performance Rating: (completed after post-test) 0

Pre-Test Date: Enter Text Here Pre-Test Score: Enter Text Here

Post-Test Date: Enter Text Here Post-Test Score: Enter Text Here

Performance Rating Scale: 1=Extremely Limited; 2=Partially Limited; 3=Competent; 4=Highly Proficient

Activity 1 - Testing Seed for Germination

Overall Performance Rating:

- (a) Placed filter paper in bottom of petri dish.
- (b) Dampened filter paper with a small amount of water.
- (c) Placed 10 seeds on filter, and put lid on dish.
- (d) Placed dish in sun and kept damp.
- (e) Calculated germination percentage after five days.

Time Spent on Activity: Enter Text Here

Notes: Enter Text Here

Aptitude levels required to perform this activity:

General Learning Ability: Average

Clerical Perception: Below Average

	Yes	No
a.	<input type="checkbox"/> 0	<input type="checkbox"/>
b.	<input type="checkbox"/> 0	<input type="checkbox"/>
c.	<input type="checkbox"/> 0	<input type="checkbox"/>
d.	<input type="checkbox"/> 0	<input type="checkbox"/>
e.	<input type="checkbox"/> 0	<input type="checkbox"/>

Activity 2- Mixing Potting Soil

Overall Performance Rating:

- (a) Measured one cup of soil, one cup of peat moss, and one cup of vermiculite into mixing pan.
- (b) Mixed ingredients well with trowel.
- (c) Covered pan with plastic film wrap.

Time Spent on Activity: Enter Text Here

	Yes	No
a.	<input type="checkbox"/> 0	<input type="checkbox"/>
b.	<input type="checkbox"/> 0	<input type="checkbox"/>
c.	<input type="checkbox"/> 0	<input type="checkbox"/>

'First Look' PowerPoint

CAREER EXPLORATION

FIRST LOOK



Greenhouse Work

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Activity One: Testing Seed For Germination



Activity 1 – Testing Seed for Germination

If only five out of 20 seeds germinated, then the **germination percentage** is 25%.

$$\frac{5 \text{ Seeds germinated}}{20 \text{ Seeds planted}} = \frac{1}{4} \quad \text{or} \quad .25$$



GREENHOUSE WORKER STUDENT INSTRUCTIONS

Greenhouse workers spend all day working with plants!

Greenhouse workers:

- Plant, grow, harvest and transplant trees, shrubs or plants
- Spray, weed, fertilize and water plants and shrubs, using hand and gardening tools
- Dig, cut, and transplant seedlings, cuttings, trees and shrubs
- Haul and spread topsoil, fertilizer, peat moss, and other materials to condition the soil

Greenhouse workers work in greenhouse facilities, sometimes called nurseries. They can also work at a customer's home or building location.

In this kit, you will learn to:

- Test seeds for germination
- Mix potting soil
- Grow plants from seed
- Transplant plants
- Root stem cuttings
- Grow plants using propagation methods
- Graft one plant to another
- Build a small greenhouse



ACTIVITY 1:

TESTING SEEDS FOR GERMINATION

Germination is the sprouting ability of seed. Most seeds sold today have been tested and their germination is known. However, if the sprouting ability is not known, germination is a good way to see if seeds can still be used to grow new plants.

In this activity, you will learn to:

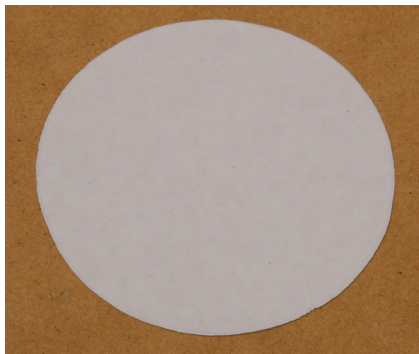
- Define germination
- Test seeds for germination
- Figure germination percentage



Materials needed from the kit:



Seed packages



1 piece of filter paper



1 petri dish

Materials you need to get:

- Additional seeds (optional - from a vegetable such as a bean)
- Water
- Sunlight

A MESSAGE TO PARENTS

To help establish a clear channel for communications from home-to-school and school-to-home, we have created the

Parent Involvement Brochure.

Education Associates knows that maintaining a positive relationship with your child's school improves your child's experience in the classroom. Throughout the year, when your child's class begins a new module, you will have the opportunity to review the skills and knowledge they will gain by performing the activities in each kit. As your child performs each activity, they will explore their own strengths, preferences and interests.



ACTIVITIES

Activity 1 - Testing Seed for Germination

Activity 2 - Mixing Potting Soil

Activity 3 - Growing Plants from Seed

Activity 4 - Transplanting

Activity 5 - Stem Cuttings

Activity 6 - Other Plant Propagation Methods

Activity 7 - Graftage

Activity 8 - Building a Small Greenhouse (Optional)



PROJECT DISCOVERY

PARENT INVOLVEMENT BROCHURE

"Greenhouse Work"



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