

Plant Science Merit

Some answers will need to be written on a separate sheet of notebook paper and placed into your workbook.

1. Make and use a germination seed tester to test ten seeds each from FOUR of the following plants: corn, cotton, alfalfa, beans, clover, wheat, rice, rye, barley, melon, and tomato. Determine the percent of live seeds.

Plant	Number of Seeds	Number of Live Seeds	Percent
	10		
	10		
	10		
	10		

Divide column 3, "Number of Live Seeds," by column 2, "Number of Seeds," to obtain the percentage.

2. Grow at least eight plants (two each of the four varieties germinated in Requirement 1) for at least five weeks using either a garden or a container. Keep a weekly record of your plants' growth.

Growth in Inches

Plant	Week 1	Week 2	Week 3	Week 4	Week 5

RANGE

Date

Leader's Initials

Date

W-1

PLANT SCIENCE MERIT

	1 0						
	Plant	Week 1	Week 2	Week 3	Week 4	Week 5	
Leader's Initials							
Date							
Leader's Initials Date	4. Write a 300-w Scripture verse 6:43–45; Luke Place your wor	es. Matthew 7 13:6–9; John	:15–20; Matt n 12:24; John	hew 13:3–23;		_	
	5. Determine the method you would use to control weeds in either a garden of of corn and explain it.						
Leader's ■							
Initials							
Date	6 Choose a cror	o from your	state or regio	n Write a 24	50-word reno	ort about its	
Leader's Initials	6. Choose a crop from your state or region. Write a 250-word report about its importance to the economy of your state or region.						
Date Date	Place your work into your workbook.7. Determine the three most common pests you must control in either a garden of in a field of corn. Explain the method you would use to control those pests.						
	Pest		Methods of Control for Each				
茶 _/	1	a	-		-		
NGFRS®		b					
T 10EIO		_					

plants' growth.

3. Propagate at least two plants by either taking cuttings from established plants or grafting parts of two established plants into each other. Grow the plants for at least five weeks using either a garden or a container. Keep a weekly record of your

Why did you select those con	ntrol method	ls for pest	1?			
Why did you select those con	ntrol method	ls for pest 2	2?			
Why did you select those c	ontrol meth	ods for pe	st 3?			Leader's Initials Date
8. Conduct an experiment to determine what nutrients must be in the soil to grow beans. Record your results and write a 100-word report. Growth in Inches						
Plant	Week 1	Week 2	Week 3	Week 4	Week 5	
"No fertilizer"						

	X	K
Leader Initials	's	GE
Date_		