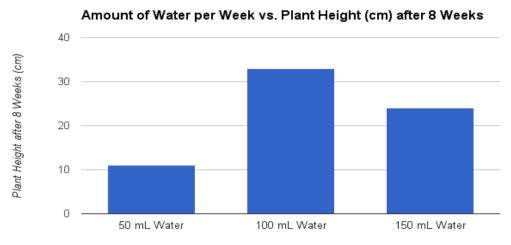
Quiz: Scientific Inquiry

The following items (A-E) are parts of five different investigations.

- **A.** 1. Choose a small balloon and rub it on a towel for 30 seconds before sticking it to a clean wall.
 - 2. Observe, measure and record how many seconds the balloon stays up on the wall.
 - 3. Repeat steps 1-2 3 times.
 - 4. Repeat steps 1-3 with the medium and large balloons.
- **B.** How does the amount of water given per week affect the plant height after 8 weeks?



Amount of Water Applied to Plant Each Week (mL)

- **C.** How does the mass of different bowling balls that all have the same diameter affect how many pins a bowling ball knocks down?
- **D.** Type of Liquid Solution vs. Rate of Melting for an Ice Cube (seconds)

Liquid Used to Melt Ice Cube (200 mL of Room Temp. liquid with 1 tsp. of salt or sugar)	Time for Ice Cube to Melt (seconds)			
	Trial 1	Trial 2	Trial 3	Average
Salt Water	340	350	360	350
Sugar Water	360	380	400	380
Plain Water	180	190	200	190

E.	If the same color Skittles are pla	aced in three diff	erent temper	ature	s of water, the	en the Skittles
	in the hot water will dissolve fas	test because the	heat will cau	use th	e candy to m	nelt and dissolve
	more quickly.					
Name:		Per:	Score:	_/32	Score:	_/4

Quiz: Scientific Inquiry

For each item (A-E) on page 1, write the manipulated, responding and controlled variables in the table below (1 point for each variable).

Item	Manipulated Variable	Responding Variable	Controlled Variable
А	1.	2.	3.
В	4.	5.	6.
С	7.	8.	9.
D	10.	11.	12.
E	13.	14.	15.

Use the same items (A-E) to fill in the following blanks - write the letter in the blank (1 pt each).

Which item (A-E) from pa	age 1 is a:		
16. Question:			
17. Hypothesis:			
18. Procedure:			
19. Data Table:			
20. Graph:			
21. Write a hypothesis for	r the question on page 1.	(2 points)	

22. Write a procedure that follows the hypothesis on page 1. (6 points)		
23. Write a conclusion using the data table on page 1. (4 points)		