



Work sheets
Chapter 1
Building
a Better Scientist



Grade 5



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make an
observation



ask a
question



make a
hypothesis

I think...



conduct your
experiment



draw
conclusions



**I learned
that...**

report your
results



Every baby
knows the

scientific method!



Q1: Direction: Match the vocabulary word with the Definition
Write the letter for the defecation that matches the word in the blank.

1- Science

2-Scientific method

3-Hypothesis

4-Data

5-Visulasation

6-conclusion

7-inference

8-observation.....

9-control experiment....

10-precision

11-technology

12-variable

13-theory

14-law

15-newtons law.....

a-describe the motion of an object

b-a rule describe a pattern in nature.

c-attempt to explain a pattern observed reeat-
edly in the natural world.

d-series of steps that scientists use when con-
ducting an investigation.

e-the factors that change in experiment .

f-scientific investigation that involves changing
one factor and observing it s effect on another
factor while keeping all other factors constant.

g-conclusion formed from available informa-
tion or evidance.

h-using one or more senses to identify or learn
about something.

i- is a statement about whether or not the
hypothesis valid based on the data collected.

k- are images or movies that represent com-
plex sets of data.

l-is a possible answer or prediction that can be
tested.

m-information that gathered during an investi-
gation.

n- the practical use of science.

o- description of how close repeated measure-
ments are to each other.

p- is a way of learning about the natural world.

Complete the following sentence using the words in the box below.

Scientific method conclusion Scientists $f = m \times a$ independant
dependant communication Biology model scientific theory

- 1- After analyzing data its time to draw
- 2- All object exert gravitationalforce this is
- 3-.....ask many questions about the world around them.
- 4-The science helpa bout search more available
- 5-is branch of science study how diseases spread.
- 6-representation of an object or an event.
- 7-.....variable when the variable being measured.
- 8-Scientists do not always follow all steps of the in order.
- 9-.....newtons third law
- 10-.....variable when the changed in a controlled experiment .



Q3: For Each Question, Choose the Correct Answer from the Multiple-Choice List.

1-Description of how close repeated measurements are to each other:

- a- Observation
- b- Data
- c- Hypothesis
- d- Precision

2-Way of answering a scientific question:

- a- Model
- b- Observation
- c- Scientific method
- d- Scientific investigation

3-The study of earth and space called:

- a- Earth science
- b- Life science
- c- Physical science
- d- Chemical science

4-possible answer or predication that can be tested:

- a- Model
- b- Technology
- c- Data
- d- Hypothesis

5- The practical use of science

- a- Model**
- b- Technology**
- c- Data**
- d- Hypothesis**

6- An investigation in which scientists make observation and collect information outside laboratory

- a- Model**
- b- Technology**
- c- Study fields**
- d- Control experiments**

7- The first step of the scientific method involves:

- a- Forming a hypothesis.**
- b- making observations**
- c- Performing an experiment.**
- d- Predicting the result of an experiment.**

8- Graphical representations are included in a lab report.

- a- True**
- b- False**
- c- Not sure**
- d- Nothing**

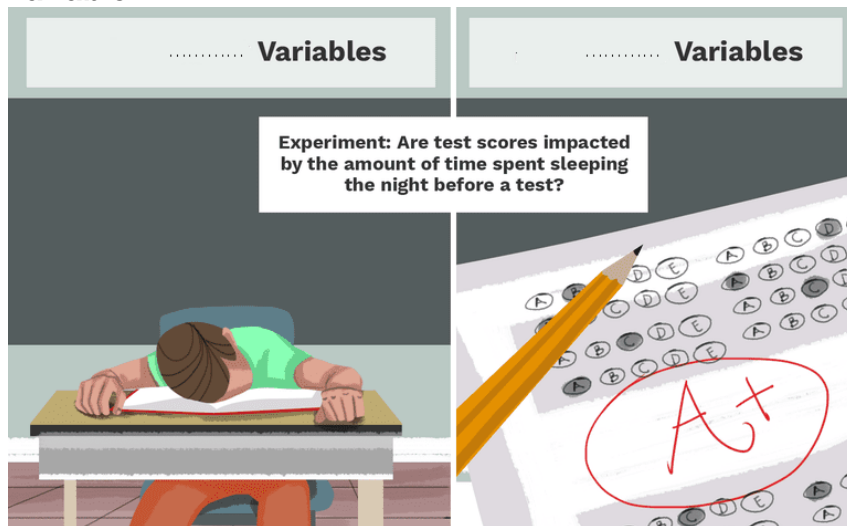
9- Identify the qualitative observation.

- a- The desks are 1.5 m long.
- b- The desks are rectangular.
- c- All




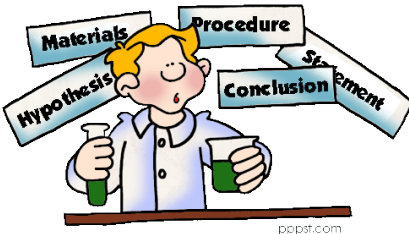


10-In which section of the lab report do you take an educated guess of what will happen during the experiment? This section is completed before the experiment is conducted.

- a- Background Information
- b- Method
- c- Conclusion
- d- Hypothesis


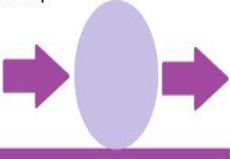



Q4: Write on the below picture the type of variable if Dependent and Independent Variable



Q5: match between the pictures and scientific terms

<p>1-</p> 	<p>a- scientific investigation</p>
<p>2-</p> 	<p>b-model</p>
<p>3-</p> 	<p>c-observe</p>
<p>4-</p> 	<p>d-data</p>
<p>5-</p> 	<p>e-Technology</p>
<p>6-</p> 	<p>f-hypothesis</p>

Q6: Read the Newton's law and writes the Name of law

Law	Name of law
<p>With no outside forces, a stationary object will not move</p>  <p>With no outside forces, a moving object will not stop</p> 	
<p>Balloon goes up</p>  <p>Air goes down</p>  <p>Every action has an equal and opposite reaction</p>	
 <p>The more force, the more acceleration</p> 