

Cheat Sheet

For each word or phrase write in as much information as you can that will help you on the test. ****Don't just write the definition. Some of the questions are application questions. ****

Classify

Compare/contrast

Constant

Control

Dependent variable

Hypothesis

Independent variable

Infer

Law

Model

Observe

Predict

System

Theory

What do you use to make an observation? What is the difference between observe and infer?

You will be asked to determine the constant variable(s), what is a constant variable and how does that impact your experiment?

Effects of Solar Warming (Temperature in °F)				
	North	South	East	West
Day 1	29	36	32	32
Day 2	29	36	32	31
Day 3	30	37	34	33
Day 4	27	34	32	30
Day 5	30	37	35	33

Predict what the temperature would be in the west on day 5.

Scientific Method

Practice

Identify the parts of the experiment: Robert measured fifty grams of soil on a balance and placed the soil in a small cup. He repeated this process until he had ten cups of soil. Then he planted one bean seed in each of the cups. Robert was careful to push all of the seeds two centimeters deep and cover them smoothly with the soil. All of the cups were placed in the same windowsill and received the same amount of sunlight. He gave five of the bean seeds five millimeters of water a day. He gave the other five bean seeds two millimeters of water a day. Every other day Robert measured the bean plants to see how tall they grew. After he measured twenty times he compiled his data and made a line graph to show the seed growth over time.

1. What is the independent variable?
2. What is the dependent variable?
3. Write a hypothesis using the variables.
4. What are the constant variables?
5. What is the control group?

Label the parts of a bar graph

Make a Bar Graph (Sleeping and Your Favorite Sport)

Directions: Make a bar graph for each set of data below. Label both the x (horizontal) and y (vertical) axis properly. Give each graph a title.

Title: _____

Your Class's Favorite Sport

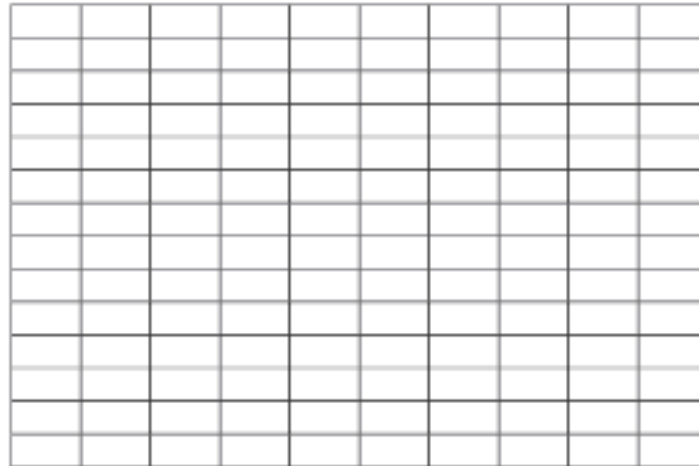
Baseball- 4

Basketball- 3

Hockey- 8

Football- 7

Soccer- 3



Create a line graph

Make a Line Graph (Jumping and Rainfall)

Directions: Make a line graph for each set of data below. Label both the x (horizontal) and y (vertical) axis properly. Give each graph a title.

Title: _____

Height (cm)	Vertical Jump (cm)
59	12
60	17
61	16
62	24
65	21
65	35
67	27
68	36
71	31
74	11

