## What is a Hypothesis?

<b>Directions:</b> Put an X next to the statements that describe a	hypothesis.
A. A tentative explanation.	H. Included as part of all scientific investigations.
B. A statement that can be tested.	I. Used to prove whether some is true.
C. An educated guess.	J. Eventually becomes a theory, then a law.
D. An investigative question.	K. May guide an investigation.
E. A prediction about the outcome of an investigation.	L. Used to decide what data to pay attention to and seek.
F. A question asked at the beginning of an investigation.	M. Partly developed from imagination and creativity.
G. A statement that may lead to a prediction.	N. <b>MUST</b> be in the form of "ifthen"
What is a Th	neory?
A 'theory' in science has a different meaning than the 'theorem'. Put an X next to the statements that describe a	· · · · · · · · · · · · · · · · · · ·
A. Theories include observations.	G. Theories are inferred explanations,
B. Theories are "hunches" scientists have.	strongly supported by evidence.  H. A scientific law has been proven and a theory has not.
C. Theories can include personal beliefs or opinions.	I. Theories are used to make predictions.
D. Theories have been tested many times.	J. Laws are more important to science than theories.
E. Theories are incomplete, temporary ideas.	K. A hypothesis is upgraded to a theory, then a law.
F. A theory never changes.	
What is a I	Law?
A 'law' in science has a different meaning than the 'laws' we <b>Directions:</b> Put an X next to the statements that describe a	
A. Laws are theories that have	D. Laws are descriptions of a physical
'graduated', and once were a	event.
hypothesis.	E. Laws are more important to science
B. A law can be framed as an equation.	than theories.
C. Lawa are evaluations of a physical	F. A scientific law has been proven and
C. Laws are explanations of a physical event.	a theory has not G. A law never changes.
CvCIII.	O. A law lievel changes.

## **Hypotheses and Variables**

**Directions:** Underline the independent variable and circle the dependent variable in the following questions. Then re-write the question in the form of a hypothesis. (Hint: use the if-then format if you are struggling.)

1.	If I brake a mirror will I have seven year of bad luck?
2.	Will eating too many Cheetos turn me orange?
3.	Will doing squats every day make me swole?
4.	Do blonds really have more fun?
5.	Will Richard Sherman's injury keep the Seahawks from going to the Super Bowl?
6.	Does eating an apple a day keep the doctor away?