Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_Number \_\_\_

**How Can Failure Lead to Innovation Review (20points)**

**Directions:**

* Click “file”- click “save as google doc”- click “move”- click “8th grade science”- title your document “How does Failure Lead to Innovation Review”
* Complete the following: If you plan on printing this assignment make your writing bold or underlined. If you plan on turning it in on ilearn change the font color (be sure to select a color that I can read)

**Define the following vocabulary words. Be sure to use the definitions related to our science content**.

Independent variable

Dependent variable

Control

Constant

Criteria

Constraints

Well-defined

Pattern

Cause

Effect

System

System Model

Boundary

**Answer the following using complete sentences with a restate.**

1. Give two examples of a trend or pattern from your stations.

2. With what kind of data do you use the following kind of graph?

Pie chart-

Line graph-

Bar graph-

3. What is a cause and effect relationship?

4. Give an example of a cause and effect relationship from your stations.

5. Give an example of a cause and effect relationship from something other than your stations.

6. List the steps of the scientific method

7. Sandy is a 8th grade student who loves to garden. She is trying to decide which fertilizer would be best, Murphy fertilizer, Ali fertilizer or Farkas fertilizer. She begins to Google customer reviews of all three fertilizers to decide which is the best before she tests them. Which step of the scientific method is she on?

8. What part of the scientific method were we completing when we were building the structure during the marshmallow challenge?

9. Scientist will complete many trials in an experiment to ensure that their results are accurate, true or false?

10. Imagine a scientist is conducting an experiment on the effects of acid on weathering rocks. In this experiment, there are three different samples of identical rock pieces. The scientist does not add anything to the first sample. The scientist adds 5 drops of acid the the second rock and 10 drops of acid to the third rock. What is the dependent variable?

11. What do you measure with a ruler?

12. Sandy is a 8th grade student who loves to garden. She is trying to decide which fertilizer would be best, Murphy fertilizer, Ali fertilizer or Farkas fertilizer. She thinks the best fertilizer is Ali fertilizer because that is the kind her mother uses, but she wants to be sure. So, she begins to design an experiment to find the answer to her questions. Which step of the scientific method is Sandy on?

13. Our written responses are CERs

|  |
| --- |
| Question: How can failure lead to innovation |
| Claim: |
| Lab evidence: |
| Research Evidence: |
| Reasoning (explain how your evidence support your claim)  \*\*Remember to include your sources\*\* |

14. To turn this assignment in either

A. Print it at home and turn it into the turn in basket

B. Turn it in on ilearn by completing the following

* Go to ilearn
* Go to my class
* Click on the assignment for your hour “How can failure lead to innovation review”
* Link your account and follow the instructions to upload your assignment
* Must be turned in by Sunday at Midnight