Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Separating Fact and Fiction**

|  |  |
| --- | --- |
| Good Science | Bad Science |
|  |  |

**Define:**

 Fact:

 Inference:

 Bias:

**Article One:**

1. Read the article.

2. What are 2 inferences made in the article.

3. What are 2 illogical conclusions either based on fact or fantasy.

**Analysis Questions:**

1. What are 3 clues in this article that alert you to it being “good” or “bad” science?
2. What are 3 ways you can identify sound (good) scientific evidence from the bad?
3. Why might it be important to be cautious about some inferences? (Hint: Think about what they are based on)
4. What bias does the publisher of this article have? (Hint: this is a blog.)

**Article Two:**

1. Read the second article.

2. What are 2 facts that you find in the article? Explain how you could verified these facts in your notebook.

3. What are 2 inferences made in the article?

4. What are 2 illogical conclusions either based on fact or fantasy (IF POSSIBLE).

**Extension Activity:**

Write a 5 - 6 sentence paragraph discussing the Nitrogen cycle. You have been asked to write this paragraph for the “Weekly World News,” a tabloid. Write another 5-6 sentence paragraph but this time as is you were writing for a Scientific Journal like NATURE. Be sure to include at least 3 facts, 3 inferences in each paragraph.