**Scientific Method: Designing and Performing Investigations**

**Learning Targets:**

* **The student will demonstrate that data analysis is a vital aspect of the process of scientific inquiry and communication.**
* **The student will use appropriate methods for communicating in writing and orally the processes and results of scientific investigation.**
* **The student will use mathematical processes.**

**Vocabulary:**

* **Bias: prejudice in favor of or against one thing/group compared with another**
* **Control Group: group used for comparison by lacking the manipulated or independent variable**
* **Validate: to make well-founded**
* **Trial: how many times groups are tested**

**Objectives:**

* **Compare and contrast control and experimental groups in a controlled experiment.**
* **Understand the difference between the terms trial and groups in a controlled experiment.**
* **Describe how to design a lab to reduce bias and increase validation of results.**
* **Be able to draw and record data into a data table using correct scientific measurements.**

**Literacy: “Turns out trying unpleasant things is just human nature” by Scientific American, adapted by Newsela staff on 6/22/2016;** [**https://newsela.com/read/why-people-eat-disgusting-things/id/18481/**](https://newsela.com/read/why-people-eat-disgusting-things/id/18481/)

1. **How does this article relate to the scientific method?**
2. **What was the PROBLEM the researchers were trying to solve in their scientific study? Support your evidence with textual support (include the paragraph number)**
3. **What would be another way to say "aversive stimuli" in paragraph 5?**
4. **What is another way the researchers could test their hypothesis using Jelly Belly Bean Boozled?**