

## Worksheet 1: SCIENTIFIC METHOD

Name: India Faust      Date 8/13/2020

Here is a scenario. Put this information into a scientific perspective by identifying each step of the Scientific Method.

Mr. Cottontail, our local pet breeder noticed (**observed**) that his dwarf bunnies were getting fat and lazy. For the last 3 months he has been feeding his bunnies a Legume variety of hay, called Alpha-Alpha Hay. Upon **exploring** other resources, he **learned** that bunnies are grazing animals and they need a constant supply of good quality hay such as Timothy Hay which is variety of Grass Hay. Bunnies need roughage to keep their insides working. Mr. Cottontail decided to check out (**experiment with**) the 2 kinds of hay. He randomly selected 24 bunnies and divided them in to 2 groups of 12. Both groups were watered, both had 12 hours daylight, and 12 hours dark. Group 1 (**control group**) was fed Alpha-Alpha Hay, while group 2 (**experimental group**) was fed Timothy Hay. At the end of the 3 months, he noticed remarkable changes in the group 2 bunnies. They had shiny fur, bright red eyes, and were very energetic and playful. Bunnies in group 1 grew fatter and were dull. Mr. Cottontail was indeed happy. He shared his findings with the pet food supplier and has a successful running business.

**Observation:** What did Mr. Cottontail observe (notice)? (12 pts)  
**His Dwarf bunnies were getting fat and lazy.**

**Question formulation:** What question came to his mind? Relate the question to the food and health of the bunnies. (12 pts)

**Is the food causing the bunnies to get fat and lazy? It's the food that's causing it.**

Explore alternative resources (exploration): What did Mr. Cottontail Learn about the food of bunnies? (12pts) He learned that bunnies are glazing animals, and need a good quality hay such has quality hay.

**Hypothesis:** This *STATEMENT* should be a possible answer to the question that came to his mind.  
**(14 pts) Changing the food will make the bunnies healthy.**

## Experimental Design

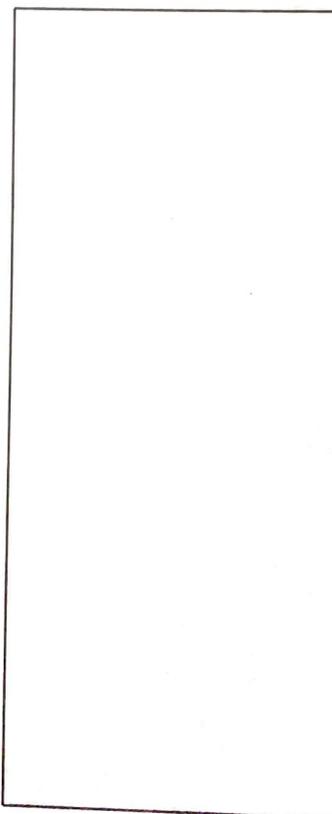
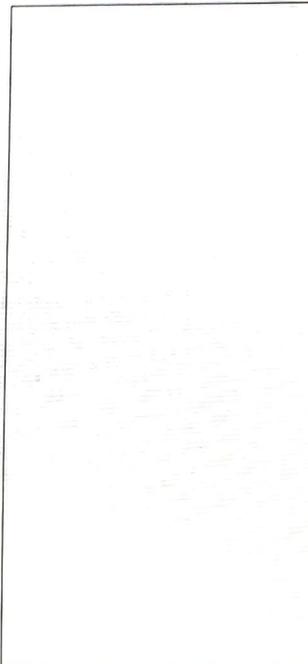
**Control Group:** LIST each component from the control group. Ex: How many bunnies? Hours of day/dark, Food, drinks etc.: (12 pts):  
**12 bunnies. Alpha-Alpha Hay. Water. 12 hours daylight/ 12 hours dark.**

**Experimental Group:** LIST each component from the experimental group. Ex: How many bunnies? Hours of day/dark, Food, drinks etc.: (12 pts):  
**12 bunnies. Timothy Hay. Water. 12 hours daylight/12 hours dark.**

## Results (14pts):

**Control Group:** How did the bunnies in the control group look and act after the experiment?  
They are still fat and lazy.

**Experimental Group:** How did the bunnies in the experimental group look and act after the experiment?  
Energetic, Shiny fur, and playful.



**Communication:** What did Mr. Cottontail do with his results after his experiment was completed?  
(12pts):

**Mr. Cottontail shared his results of findings with the pet food supplier.**

