

## 7<sup>th</sup> GRADE HONORS SCIENCE SUMMER PACKET

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

Class: \_\_\_\_\_

### Experimental Scenarios

Directions: For each of the scenarios below, identify the question, hypothesis, and variables. Then design your own experiment and identify the variables.

#### Scenario One: The effect of fertilizer on plants.

Description: John's biology class was studying various ways to recycle materials, including the use of compost as fertilizer. Members of John's class investigated the effectiveness of various recycled materials in promoting plant growth. John and three members of his lab group decided to compare the effect of compost and commercial fertilizer on plant growth. Three flats of bean plants (25 plants per flat) were grown for five days. The plants were then fertilized as follows: Flat A received 10 grams of commercial fertilizer; Flat B received 10 grams of aged compost; and Flat C received no fertilizer. The plants received the same amount of sunlight and water each day. At the end of 20 days, the students recorded the height of the plants in centimeters.

#### Scenario Two: The effectiveness of various metals in preventing rusting of iron.

Description: Several weeks after Allen conducted a classroom experiment on the effectiveness of various metals in releasing hydrogen gas from hydrochloric acid, he read that the gas company was burying sheets of magnesium next to iron pipelines in order to prevent rusting. Allen wondered if other active metals would also be effective in preventing rust.

To investigate, he placed each of the following into a separate test tube containing water: one iron nail; one iron nail wrapped with an aluminum strip; one iron nail wrapped with a magnesium strip; and one iron nail wrapped in a lead strip. He used the same amounts of water from the same source, equal amounts of the metal wraps and the same type of iron nails. At the end of five days, he described the amounts of rusting either as small, moderate or large. He also recorded the color of the water.

#### Scenario Three: The effect of perfume on the behavior of bees.

Description: Joanna read that certain perfumes would cause bees to leave the hive and act in an agitated fashion. She decided to investigate the response of bees to five different perfumes- Ralph Lauren, Armani, Mark Jacobs, Vera Wang, and the last is an odorless liquid. She placed a saucer containing 20ml of perfume A 10 meters from a beehive. She then recorded the total number of bees that emerged from the hive during a 15 minute interval and made observations on their behavior. Using a 30 minute interval between tests to allow recovery time for the bees, she then repeated the procedure to test the remaining three samples. Each test was conducted on the same day with similar weather conditions.

#### Scenario Four: Testing an Antibiotic

Description: Bacteriologists are often called to test new kinds of antibiotics on specific types of bacteria to determine whether they will be effective. A common way of doing this is to follow the procedure outlined below.

1. Nutrient broth (a food supply for bacteria) is prepared, put into two test tubes, A & B, and then sterilized.
2. A measured amount of the same bacteria is added to the nutrient broth and allowed to grow and multiply for the same amount of time.
3. To test tube A the antibiotic is added, to test tube B nothing is added.
4. Both test tubes are incubated at 70 degrees F. for 24 hours.

#### Scenario Five: Different Plastics

Description: There are many different types of plastic wraps that can be used for different purposes. One use of a plastic wrap is to keep food from drying out in a freezer. The degree of effectiveness of this type of wrap is based on how air tight it is. You decide to test the effectiveness of this type of brand A plastic wrap. Because germinating seeds require air to grow, sprouts can be used to test the amount of air that moves through the

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**Chao Zhang**

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