

## 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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**R Bogdan**



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## **Table of Contents 7th Grade Math Honors Summer Packet**

1. Understanding the eBook 7th Grade Math Honors Summer Packet
  - The Rise of Digital Reading 7th Grade Math Honors Summer Packet
  - Advantages of eBooks Over Traditional Books
2. Identifying 7th Grade Math Honors Summer Packet
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 7th Grade Math Honors Summer Packet
  - User-Friendly Interface
4. Exploring eBook Recommendations from 7th Grade Math Honors Summer Packet
  - Personalized Recommendations
  - 7th Grade Math Honors Summer Packet User Reviews and Ratings
  - 7th Grade Math Honors Summer Packet and Bestseller Lists
5. Accessing 7th Grade Math Honors Summer Packet Free and Paid eBooks

- 7th Grade Math Honors Summer Packet Public Domain eBooks
  - 7th Grade Math Honors Summer Packet eBook Subscription Services
  - 7th Grade Math Honors Summer Packet Budget-Friendly Options
6. Navigating 7th Grade Math Honors Summer Packet eBook Formats
- ePub, PDF, MOBI, and More
  - 7th Grade Math Honors Summer Packet Compatibility with Devices
  - 7th Grade Math Honors Summer Packet Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 7th Grade Math Honors Summer Packet
  - Highlighting and Note-Taking 7th Grade Math Honors Summer Packet
  - Interactive Elements 7th Grade Math Honors Summer Packet
8. Staying Engaged with 7th Grade Math Honors Summer Packet
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 7th Grade Math Honors Summer Packet
9. Balancing eBooks and Physical Books 7th Grade Math Honors Summer Packet
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection 7th Grade Math Honors Summer Packet
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 7th Grade Math Honors Summer Packet
- Setting Reading Goals 7th Grade Math Honors Summer Packet
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 7th Grade Math Honors Summer Packet
- Fact-Checking eBook Content of 7th Grade Math Honors Summer Packet
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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