

Scientific Inquiry, Force, and Motion (Lessons 1-4) Note-Taking Guide

Using what you learn in Section 1: Lessons 1-4, take notes on key concepts by answering the following prompts in *your own words*:

1. Describe the main methods of science.

Distinguish between **controlled experiments**, **observational studies**, **field studies**, and **laboratory studies**. Include an **example** of each.

a) **Controlled experiment**: performed in a laboratory (controlled setting)

- Testing different soil types to see which absorbs water faster.

b) **Observational studies**: can be studied using the 5 basic human senses or tools (telescopes, detectors, etc.) / they answer questions based purely on what researchers observe / (researchers) avoid changing/controlling them.

- The migration patterns of ducks during winter.

c) **Field studies**: experiments done outside the lab (uncontrolled setting)

- Collecting different samples of ocean water to see which is the most polluted.

Note Taking Guide Physical Science Answers

Clemens Wendtner



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web if you want to keep the dna for further experiments 13 dunk several times the spooled dna into a small tube containing clean alcohol and let air dry 14 at this point you can store the dna in sterile water in the freezer notes if you do not open the lid while the wheat germ is settling carbon dioxide will build up in the tube

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web from wheat germ protocol salk institute mobile lab step 1 obtain a numbered 50 ml conical vial with 10 ml of water write your number here step 2 to the tube with 10 ml water add 1g 1 pinch of raw wheat germ the wheat germ should settle to fill 1 2 the cone step 3 cap the tube and vigorously shake to mix for about 30 seconds

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web 1 iam working on a program to perform addition subtraction multiplication and differentiation operations on a polynomial using linked list in c the other operations are working fine

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web polynomial addition using linked list we store each polynomial as a singly linked list where each node stores the exponent and coefficient in the data part and a reference to

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