

Biology Unit 1 – The Nature of Science

Grade: 9-12



Kathleen Sciney, M.S.

**Contains: 3-4 weeks of curriculum that includes
12 activities (including 2 labs), a curriculum calendar,
and a complete teacher answer key.**

Objectives:

1. Recall laboratory safety practices and identify common laboratory equipment.
2. Create your own, pre-planned experiment, gather data regularly, and write a laboratory report to conclude the unit (rubric provided).
3. Describe how scientific investigations are conducted using the scientific method to design, conduct, and interpret the data from an experiment.
4. Identify possible sources of error in an experiment and how those errors can affect the outcomes of an experiment.
5. Utilize the metric and English systems of measurement and perform metric conversions.
6. Recall the characteristics of living things.
7. Generate tables and graphs when given data.
8. Define and identify the parts of an experiment including the control, constants, variables (independent & dependent), and data (quantitative & qualitative).
9. Distinguish the difference between a hypothesis, theory, and law.
10. Describe the importance of ethics in science.

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web meiosis produces haploid cells from diploid cells meiosis is a peculiar type of cellular division in which diploid germ line cells give rise to haploid reproductive cells or gametes meiosis plays a key role in generating tremendous genetic diversity click on or to play or stop the animation

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synthesis of dna g2 prophase I metaphase I anaphase I telophase I cytokinesis I model

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web exercise 2 a are the four daughter cells of meiosis genetically identical or different from one another explain your answer describe the daughter cells of your meiosis model what color and how many of each color beads were present in each of the four daughter cells the four daughter cells of meiosis are not genetically identical

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web problem how does meiosis increase genetic variation introduction most cells in organisms that reproduce sexually are diploid they have two sets of chromosomes and two complete sets of genes gametes are an exception gametes are the cells that combine during sexual reproduction in animals these cells are called sperm and eggs

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web the answer is meiosis cells in reproductive organs undergo meiosis as they divide to form germ cells that mature into gametes egg cells or sperm cells this diagram compares the processes of mitosis and meiosis in this descriptive lab you will model meiosis that begins in a cell of the fruit fly drosophila melanogaster you will use

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web a in meiosis I homologous chromosomes separate while in meiosis II sister chromatids separate meiosis II produces 4 haploid daughter cells but meiosis I produces 2 diploid daughter cells crossing over only occurs in meiosis I why do you use non sister chromatids to demonstrate crossing over a

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mitosis and meiosis both mitosis and meiosis are involved in making new cells

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web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in animal and plant cells