



Quarter 2: Gr. 7, Science Unit: Science, Grade(s) 7

Quarter 2 at a glance for Science grade 7

Duration: 0 Day

Unit	
Year at a Glance	





Science 7

YEAR AT A GLANCE

Student Competencies by Quarter 2013-2014

Adopted Text: HOLT SCIENCE AND TECHNOLOGY: Cells, Heredity and Classification

HOLT SCIENCE AND TECHNOLOGY: Weather and Climate

PA Common Core Resources from SAS

Refer To the Weekly view (PSTs) for Instructional Details

Quarter 2 - 43 Instructional Days To Demonstrate Proficiency By The End Of The Quarter Students Will (with eligible content references): **Textual References HOLT: Science And** Observation • Engage in various hands-on- activities in which the senses are used to collect information (S8.A.1.1.2) Technology: Cells, Heredity And Classification Measurement • Gather quantitative data by using scientific instruments (balances etc.) (S8.A. 2.2.1) Chapter 2 Section 2 Section 3 Classification • Compare cellular respiration with fermentation (S8.C.1.1.3) Chapter Test • Compare dominant and recessive traits (\$8.B.2.2.2) Chapter 3 Communicating Section 1 • Describe photosynthesis and cellular respiration (S8.C.1.1.3) Section 2 Describe the process of mitosis, and explain how it differs in plant and animal cells (\$8.B.2.2.2) Section3 • Explain how genes and alleles are related to genotype and phenotype (S8.B.2.2.1) (S8.B.2.2.2) • Describe Mendel's observations and explain the relationship between traits and heredity (S8.B.2.2.1) Chapter Test (S8.B.2.2.2) • Use Science Notebooks to record and summarize thoughts and ideas (S8.A.2.1.5) Inference Make statements about an observation that provides a reasonable explanation (S8A.1.3.4) Prediction • Use probability and a Punned square to predict possible genotypes and phenotypes of offspring (S8.A.1.1.4) Holt Science And Observation • Engage in various hands-on- activities in which the senses are used to collect information (S8.A.1.1.2) Technology: Weather And Climate Measurement

• Gather quantitative data by using scientific instruments (anemometer, thermometers etc.) (S8.A. 2.2.1)

Chapter 1





Section 1

Section 2

Section 3

Section 4

Chapter Test

Chapter 2

Section 1

Section 2

Section 3

Classification

• Compare the processes of radiation, conduction, and convection (S8.C.2.1.2)

Communicating

- Describe the composition and the layers of the Earth's atmosphere
- Describe what happens to solar energy that reaches the earth (S8.C.2.2.1)
- Describe the greenhouse effect and global warming
- Describe global wind patterns (S8.D.2.1.3)
- Identify the major sources of air pollution (S8.D.2.1.2)
- Model and explain what happens when two air masses meet and identify the four kinds of air masses (S8.D.2.1.2)
- Explain how water moves through the water cycle (S8.D.1.3.1)
- Describe the four major types of fronts and explain how fronts cause weather changes (S8.D.2.1.2)
- Describe thunderstorms, tornadoes, and hurricanes and explain how to stay safe during them
- Use Science Notebooks to record and summarize thoughts and ideas (S8.A.2.1.5)

Inference and Prediction

• Make statements about an observation to provide a reasonable explanation / Guess the outcome of an event (S8.A.1.1.4) (S8A.1.3.4)

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