



Quarter 1: Gr. 7, Science

Unit: Science , Grade(s) 7

Quarter1 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

[PA Common Core Resources from SAS](#)

[Refer To the Weekly
view \(PSTs\) for
Instructional Details](#)

Quarter 1 - 49 Instructional Days

Textual References

Appendix I-V Core
Curriculum Document; Set
Up Science Notebooks,
Establish Lab Safety And
Behavior Expectations.

Holt Science And
Technology: *Cells, Heredity
And Classification*
Chapter 7
[Start Up](#)
[Section 2](#)

Chapter 5
[Section 1](#)
[Section 2](#)
[Section 3](#)

To Demonstrate Proficiency By The End Of The Quarter Students Will (with eligible content references):

Observation

- Engage in various hands-on- activities in which the senses are used to collect information (S8.A.1.1.2)

Measurement

- Gather quantitative data by using scientific instruments (balances, etc.) (S8.A. 2.2.1)

Classification

- Classify organisms and explain how to do so (S8.B.1.1.3)
- List the seven levels of classification (S8.B.1.1.3)
- Classify a plant or animal using a dichotomous key (S8.B.1.1.3)

Communicating

- Describe each of the six kingdoms (S8.B.1.1.3)
- Identify two kinds of evidence that show that organisms have evolved (S8.B.2.1.5)
- Explain scientific names
- List sources of Charles Darwin's ideas about evolution by natural selection (S8.B.2.1.5)
- Give examples of natural selection in action (S8.B.2.1.5) (S8.B2.1.2) (S8.B.2.1.1)
- 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

- Guess what the outcome of an event (such as a lab experiment) will be based on observations and prior knowledge of similar events (S8.A.1.1.4)

Holt Science And
Technology: *Cells, Heredity
And Classification*

Observation

- Engage in various hands-on- activities in which the senses are used to collect information (S8.A.1.1.2)

Measurement



Chapter 5

Chapter Tests

Chapter 1

Section 1

Section 2

Section 3

Chapter Test

Chapter 2

Section 1

- Gather quantitative data by using scientific instruments (balances, etc.) (S8.A. 2.2.1)

Classification

- Describe the four levels of organization in living things (S8.1.1.4)
- Describe how eubacteria are different from archaeobacteria
- Explain the difference between Prokaryotic and Eukaryotic cells (S8.B.1.1.2)
- Compare passive transport with active transport (S8.B.1.1.1)

Communicating

- Explain the processes of diffusion and osmosis
- State the parts of the cell theory (S8.B.1.1.4)
- Describe the parts of the cell (S8.B.1.1.4)
- Use Science Notebooks to record and summarize thoughts and ideas (S8.A.2.1.5)

Inference/Prediction

- Make statements about an observation and provide a reasonable explanation/ Guess what the outcome of an event will be (S8A.1.3.4) (S8.A.1.1.4)

Additional Properties

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