

7th Grade Science Pacing Guide 4th Quarter 2014-15

HOP: Habits of Practice

Practice 1: Asking Questions/Defining Problems

Practice 2: Developing and Using Models

Practice 3: Planning/Carrying Out Investigations

Practice 4: Analyzing/Interpreting Data

Practice 5: Using Math & Computational Thinking

Practice 6: Constructing Explanations/Designing Solutions

Practice 7: Engaging in Argument from Evidence

Practice 8: Obtaining/Evaluating/Communicating Info

Practice 9: Thinking about my Thinking (Metacognition)

Standard	Weeks	SPI/CCSS	Chapter/Pages	Concept	Labs/Activities/ Informational Text	NGSS Connections/ Habits of Practice
Standard 4: Heredity	Week 1	<p>SPI 0707.4.1 Classify methods of reproduction as sexual or asexual.</p> <p>CCSS Reading 2 CCSS Writing 9</p>	Chapter 4, Section 3; Chapter 12, Section 1	What are the essential differences between asexual and sexual reproduction; how do plants and animals reproduce through asexual means	<p>Activity: Graphic Organizer for Reproduction</p> <p>Informational Text: Coral Reproduction</p> <p>Informational Text: Why Can't Humans reproduce Asexually?</p> <p>Informational Text: Sexual and Asexual Reproduction</p>	<p>NGSS: Cause and Effect</p> <p>NGSS: Structure and Function</p> <p>HOP: Practice 6</p>
	Week 2	<p>SPI 0707.4.2 Match flower parts with their reproductive functions.</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0707.Inq.4 Draw a conclusion that establishes a cause and effect relationships supported by</p>	Chapter 7, Section 2	What are the common functions of the various parts of a flower	<p>Lab: 16bFlower Dissection</p> <p>Lab: Flower Dissection</p> <p>Activity: Flower Drawing Rubric</p> <p>Informational Text: Warm Winter Ignites Early Pollen Surge</p> <p>Informational Text: Scientists</p>	<p>NGSS: Structure and Function</p> <p>HOP: Practice 2</p>

	<p>evidence.</p> <p>CCSS Reading 3 CCSS Reading 6 CCSS Writing 9</p>			<p>Discover what's killing the bees and it's worse than you thought</p>	
<p>Week 3-4</p>	<p>SPI 0707.4.3 Describe the relationship among genes, chromosomes and inherited traits.</p> <p>SPI 0707.4.4 Interpret a Punnett square to predict possible genetic combinations passed from parents to offspring during sexual reproduction.</p> <p>SPI 0707.Inq.2 Select tools and procedures needed to conduct a moderately complex experiment</p> <p>SPI 0707.Inq.3 Interpret and translate data into a table, graph, or diagram.</p> <p>SPI 0707.Inq.4 Draw a conclusion that establishes a cause and effect relationships supported by evidence.</p> <p>SPI 0707.Inq.5 Identify a faulty interpretation of data that is due to bias or experimental error</p> <p>CCSS Reading 2 CCSS Writing 9</p>	<p>Chapter 4, Section 1, 2</p>	<p>What is the relationship among DNA, genes, and chromosomes; basic laws of inheritance; using a Punnett square to predict outcomes</p>	<p>Lab: Investigating the Results of Inherited Traits</p> <p>Lab: Heredity Simulation</p> <p>Lab: Observing Human Traits</p> <p>Lab: Predicting Results</p> <p>Activity: Genetics Practice Problems</p> <p>Activity: Genetics Practice Problems Monohybrid Cross</p> <p>Activity: Heredity Virtual Lab</p> <p>Informational Text: How can children from the same parents look so different?</p>	<p>NGSS: Cause and Effect</p> <p>NGSS: Structure and Function</p> <p>HOP: Practice 3 & 4</p>

	Week 5	Enrichment and Reinforcement				
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