

Understanding Louisiana Student Standards for Science Supervisor and Principal Implementation Support

Activity 1: Framework of LSS for Science

As a group, discuss each component of the standards.

Coding and Descriptor:		
Performance Expectation:		
Clarification Statement:		
Science and Engineering Practices:	Disciplinary Core Ideas:	Crosscutting Concepts:

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Activity 2: Science and Engineering Practices	
Performance Expectation	Science and Engineering Practice
<p>1-LS1-2 From Molecules to Organisms: Structures and Processes Read grade-appropriate texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.</p>	
<p>3-ESS3-1 Earth and Human Activity Make a claim about the merit of a design solution that reduces the impact of a weather-related hazard.</p>	
<p>7-MS-ESS2-5 Earth's Systems Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.</p>	
<p>8-MS-PS3-3 Energy Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.</p>	
<p>HS-ESS2-1 Earth's Systems Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features.</p>	

Science and Engineering Practices

1. Asking questions and defining problems
2. Developing and using models
3. Planning and carrying out investigations
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
6. Constructing explanations and designing solutions
7. Engaging in argument from evidence
8. Obtaining, evaluating, and communicating information

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Activity 3: Crosscutting Concepts	
Performance Expectation	Crosscutting Concepts
1-LS1-2 From Molecules to Organisms: Structures and Processes Read grade-appropriate texts and use media to determine patterns in behavior of parents and offspring that help offspring survive.	
3-ESS3-1 Earth and Human Activity Make a claim about the merit of a design solution that reduces the impact of a weather-related hazard.	
7-MS-ESS2-5 Earth's Systems Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather conditions.	
8-MS-PS3-3 Energy Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer.	
HS-ESS2-1 Earth's Systems Develop a model to illustrate how Earth's internal and surface processes operate at different spatial and temporal scales to form continental and ocean-floor features.	

Crosscutting Concepts

1. Patterns
2. Cause and Effect
3. Scale, Proportion and Quantity
4. Systems and Models
5. Energy and Matter
6. Structure and Function
7. Stability and Change

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Activity 4: Instructional Shifts Video Analysis

Video 1: Red-Winged Black Bird	
Instructional Shifts	Evidence
1. Apply content knowledge	
2. Investigate, evaluate, and reason scientifically	
3. Connect ideas across disciplines	

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Video 2: Elementary	
Instructional Shifts	Evidence
1. Apply content knowledge	
2. Investigate, evaluate, and reason scientifically	
3. Connect ideas across disciplines	

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Video 3: High School

Instructional Shifts	Evidence
1. Apply content knowledge	
2. Investigate, evaluate, and reason scientifically	
3. Connect ideas across disciplines	