



**Grade 7 Science – Course 2**  
**Unit # 1- Life Science**  
**Topic 2 Human Body Systems – 20 Days**

**Unit Overview** Students will understand and apply scientific concepts, principles, and theories pertaining to the living environment setting and recognize the historical development/multicultural involvement of the ideas in science. Main ideas include: living things are alike yet different, structures in living things are related to their function and living things interact with their environment. Students consider systems and how they interact as they investigate cell function and cellular processes as well as exploring the human body as a system model, driven by the flow of energy and the cycling of matter. This leads to the study of reproduction and the plant and animal structures that support it. Students consider stability and change as a core concept in the biosphere.

**Topic Essential Question:** How do systems interact in the human body?

**Lessons**

- Topic Launch/Quest Kickoff
- Lesson 1 Body Organization
- Lesson 2 Systems Interacting
- Lesson 3 Supplying Energy
- Lesson 4 Managing Materials
- Lesson 5 Controlling Processes
- Topic Close –Assessment, Quest Findings

**NYSSLS Performance Expectations**

**MS-LS1-3. Construct an explanation supported by evidence for how the body is composed of interacting systems consisting of cells, tissues, and organs working together to maintain homeostasis. [Clarification Statement: Emphasis should be on the function and interactions of the major body systems (e.g. circulatory, respiratory, nervous, musculoskeletal).] [Assessment Boundary: Assessment is focused on the interactions between systems not on the functions of individual systems.]**

**MS-LS1-8. Gather and synthesize information that sensory receptors respond to stimuli, resulting in immediate behavior and/or storage as memories. [Assessment Boundary: Assessment does not include mechanisms for the transmission of this information.]**

**MS-ETS1-4. Develop a model to generate data for iterative testing and modification of a proposed object, tool, or process such that an optimal design can be achieved.**

**Topic Opener**

**PE:** MS-LS1-3; MS-LS1-8

**SEP:** Obtaining, Evaluating, and Communicating Information

**DCI:**

**LS1.A - Structure and Function**

- In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3)

**CCC:** Systems and System Models

Savvas

**Highlighted labs are important to the understanding of the instructional concepts in this lesson and must be completed during Science instructional time.**

- Topic Readiness Test
- **uConnect Lab – How is your body organized?**
- Quest Kickoff Video – How do your body systems interact when you train for your favorite sport?

**Lesson 1 – Body Organization**

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**PE:** MS-LS1-3

**SEP:** Engaging in Argument from Evidence

**DCI:**

**LS1.A** - Structure and Function

- In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3)

**CCC:** Systems and System Models

**zSpace Activities (code)**

**Skeletal System (A273)**

[Skeletal System - Teacher Activity Plan](#)

Students will learn why their internal skeletons are important, and will analyze how the skeletal system supports, moves, and protects the body.

[Skeletal System - Student Worksheet](#)

[Skeletal System - Student Worksheet GoogleDoc](#)

**Muscle Mechanics (A114)**

[Muscle Mecanics - Teacher Activity Plan](#)

In this activity, students will identify different types of muscle tissue, learn how muscles work, and identify important muscle pairs in the human arm and leg.

[Muscle Mechanics - Student Worksheet 1](#) &

[Muscle Mechanics - Student Worksheet 2](#)

[Muscle Mechanics - Student Worksheet GoogleDoc](#)

**Structure of Bones (A272)**

[Structure of Bones - Teacher Activity Plan](#)

In this activity, students will focus in on the structure and inner workings of our bones.

[Structure of Bones - Student Worksheet](#)

[Structure of Bones - Student Worksheet GoogleDoc](#)

**Guiding Objectives:**

- Students will use textual evidence to: List the levels of organization in the body; describe the organization of body systems; describe the functions of cells, tissues, organs, and body systems.
- Students will use evidence to construct and support arguments in order to: Compare the structure and function of body systems to other systems (e.g. car, invertebrates); explain the general functions of body systems, including how they work together to function.

**Literacy Connection**

- Support Authors Claim

**Vocabulary**

- tissue
- organ
- organ system

**Academic Vocabulary**

- organized

**Connect** - TE/SB p. 72

- Connect It!
- Quest Connection
- Inquiry Warm-Up Lab; System-atically Organized

**Investigate** - TE/SB pp. 73-79

- **Investigate Lab – Observing Cells and Tissues**
- Video – Body Organization
- Interactivity – Human Body Systems
- Interactivity – Balancing Act
- Reading Checks (pp.73; 75; 77; 79)
- Math Toolbox (p.74)
- Literacy Connection (p.77 )

**Synthesize** - TE/SB pp. 79

- Interactivity – Interacting Systems

**Demonstrate** – TE/SB pp.80

- Lesson 1 Check
- Lesson Quiz 1

**Lesson 2 – Systems Interacting**

**PE:** MS-LS1-3

**SEP:** Engaging in Argument from Evidence

**DCI:**

**LS1.A** - Structure and Function

- In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3)

**CCC:** Systems and System Models

**zSpace Activities (code)**

**Levels of Organization (A306)**

[Levels of Organization - Teacher Activity Plan](#)

In this activity, students will investigate what makes up a cell and how these building blocks of life are organized within and among living things on Earth. Biological levels of organization will be explored from the atom to the biosphere.

[Levels of Organization - Student Worksheet](#)

[Levels of Organization - Student Worksheet GoogleDoc](#)

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[Structure of Bones - Teacher Activity Plan](#)

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**Guiding Objectives:**

- Students will identify evidence to describe and explain: Stimulus-response situations; how the glands of the endocrine system control body processes; how the nervous system compares to the endocrine system; how systems interact to maintain homeostasis.
- Students will identify evidence to predict and describe: What may happen if one body system stops interacting with another; how blocked blood vessels affect cells; how healthy choices affect organ systems.

**Literacy Connection**

- Cite Textual Evidence

**Vocabulary**

- stimulus ●
- response ● hormone
- gland ●

**Academic Vocabulary**

- interactions
- stable

**Connect** - TE/SB p. 82

- Connect It!
- Quest Connection
- Poll: Growth Spurt

**Investigate** - TE/SB pp. 83-90

- Video – Systems Interacting
- **uInvestigate Lab – Parts Working Together\***
- Interactivity – Communication and Homeostasis
- Interactivity – Joints
- Virtual Lab – Physiology and Fitness
- Literacy Connection
- Plan It! (p.85)
- Reading Check (pp.84; 86; 89; 90)

**Synthesize** - TE/SB pp. 90-91

- Interactivity – A Variety of Symptoms
- Quest Check-In Interactivity – Training Systems
- Quest Check-In

**Demonstrate** – TE/SB p. 91

- Lesson 2 Check
- Lesson 2 Quiz

\*Denotes accompanying lab video

<p><b><u>Lesson 3 – Supplying Energy</u></b>  <b>PE:</b> MS-LS1-3  <b>SEP:</b> Engaging in Argument from Evidence  <b>DCI:</b>  <b>LS1.A - Structure and Function</b></p> <ul style="list-style-type: none"> <li>In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3)</li> </ul> <p><b>CCC:</b> Systems and System Models</p> <p><b>ZSpace Activities (code)</b>  <b>Digestive System (A308)</b>  <a href="#">Digestive System - Teacher Activity Plan</a>          In this activity students will explore the human body’s digestive system to gain an understanding of its structure and functions.  <a href="#">Digestive System - Student Worksheet</a>  <a href="#">Digestive System - Student Worksheet GoogleDoc</a></p>	<p><b>Savvas</b>  <b>Guiding Objectives:</b></p> <ul style="list-style-type: none"> <li>Students will identify and explain: The important nutrients a body needs to carry out its processes; how the body’s systems process the foods you eat.</li> <li>Students will develop arguments to explain: Why some food choices are healthier than others; how food becomes materials the body can use.</li> <li>Students will analyze proportional relationships to determine the total recommended daily allowances of nutrients</li> </ul> <p><b>Literacy Connection</b></p> <ul style="list-style-type: none"> <li>Write Arguments</li> </ul> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>digestion</li> <li>nutrients</li> <li>carbohydrates</li> </ul> <p>peristalsis</p> <p>saliva</p> <p><b>Academic Vocabulary</b></p> <ul style="list-style-type: none"> <li>absorption</li> <li>elimination</li> </ul> <p><b>Connect - TE/SB p. 94</b></p> <ul style="list-style-type: none"> <li>Connect It!</li> <li>Quest Connection</li> <li>Poll - Energized</li> </ul> <p><b>Investigate - TE/SB pp. 95-102</b></p> <ul style="list-style-type: none"> <li><b><u>Investigate Lab – Measuring Calories</u></b></li> <li>Nearpod for <i>u</i>Investigate Lab – Measuring Calories available in BPS K-12 Science Schoology Group</li> <li>Video – Supplying Energy</li> <li>Interactivity – Bits and Pieces</li> <li>Interactivity: Investigating Cells and Homeostasis</li> <li>Model It!</li> <li>Reading Check (pp 97; 99)</li> <li>Math Toolbox (p.98)</li> <li>Plan It! (p.97)</li> <li>Literacy Connection (p.95)</li> </ul> <p><b>Synthesize - TE/SB pp. 103-104</b></p> <ul style="list-style-type: none"> <li>Interactivity – A Day in the Life of a Cell</li> <li>Quest Check-In Interactivity – Training Table</li> <li>Quest Check-In</li> <li>Reading Check (p.103)</li> </ul> <p><b>Demonstrate – TE/SB p.104</b></p> <ul style="list-style-type: none"> <li>Lesson 3 Check</li> <li>Lesson 3 Quiz</li> </ul>
<p><b><u>Lesson 4 – Managing Materials</u></b></p>	<p><b>Savvas</b></p>

<p><b>PE:</b> MS-LS1-3  <b>SEP:</b> Engaging in Argument from Evidence  <b>DCI:</b>  <b>LS1.A - Structure and Function</b></p> <ul style="list-style-type: none"> <li>In multicellular organisms, the body is a system of multiple interacting subsystems. These subsystems are groups of cells that work together to form tissues and organs that are specialized for particular body functions. (MS-LS1-3)</li> </ul> <p><b>CCC:</b> Systems and System Models</p> <p><b>zSpace Activities (code)</b>  <b>Circulatory and Respiratory System (A010)</b>  <a href="#">Circulatory and Respiratory System - Teacher Activity Plan</a>          Students will take a tour of the circulatory and respiratory systems of the human body. They will explore how these two systems are related, the parts included in each, and how those parts are similar to other parts of the human body.  <a href="#">Circulatory and Respiratory System - Student Wkst 1</a>,  <a href="#">Circulatory and Respiratory System - Student Wkst 2</a>,  <a href="#">Circulatory and Respiratory System - Student Wkst 3</a>  <a href="#">Circulatory and Respiratory System - Student Worksheets GoogleDocs</a></p> <p><b>What is your Blood Type (A070)</b>  <a href="#">What is your Blood Type - Teacher Activity Plan</a>          In this activity, students will learn about blood types and that in sexual reproduction, each parent contributes half of the genetic information that determines the offspring's blood type.  <a href="#">What is your Blood Type - Student Worksheet</a>  <a href="#">What is your Blood Type - Student Worksheet GoogleDoc</a></p>	<p><b>Guiding Objectives:</b></p> <ul style="list-style-type: none"> <li>Students will use textual evidence to explain how body systems interact to transport materials throughout the body.</li> <li>Students will analyze diagrams in order to explain how the respiratory system interacts with other systems to exchange gases.</li> <li>Students will interpret photos and text to explain how other body systems interact with the excretory system to remove waste.</li> </ul> <p><b>Literacy Connection</b></p> <ul style="list-style-type: none"> <li>Draw Evidence</li> </ul> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>circulatory system</li> <li>artery</li> <li>capillary</li> <li>vein</li> <li>lymph</li> </ul> <p><b>Academic Vocabulary</b></p> <ul style="list-style-type: none"> <li>contract</li> </ul> <p><b>Connect - TE/SB p. 106</b></p> <ul style="list-style-type: none"> <li>Connect It!</li> <li>Quest Connection</li> <li>Inquiry Warm-Up Lab: Your Heart, Your Breathing</li> </ul> <p><b>Investigate - TE/SB pp. 107-115</b></p> <ul style="list-style-type: none"> <li><b>Investigate Lab – Body Systems Working Together</b></li> <li>Video – Managing Materials</li> <li>Interactivity – Body Highways and Byways</li> <li>Interactivity – Testing a Training Plan</li> <li>Interactivity – Circulatory System</li> <li>Reading Check (pp. 110; 111; 113; 115)</li> <li>Math Toolbox (p.110)</li> <li>Literacy Connection (p.111)</li> </ul> <p><b>Synthesize - TE/SB p. 115-117</b></p> <ul style="list-style-type: none"> <li>Quest Check-In Lab – Heart Beat, Health Beat</li> <li>Quest Check-In</li> <li>Model It! (p.116)</li> </ul> <p><b>Demonstrate – TE/SB p.117</b></p> <ul style="list-style-type: none"> <li>Lesson 4 Check</li> <li>Lesson 4 Quiz</li> </ul>
<p><b><u>Lesson 5 – Controlling Processes</u></b>  <b>PE:</b> MS-LS1-8</p>	<p><b>Savvas</b>  <b>Guiding Objectives:</b></p>

<p><b>SEP:</b> Developing and Using Models; Engaging in Argument from Evidence; Obtaining, Evaluating, and Communicating Information</p> <p><b>DCI:</b></p> <p><b>LS1.D:</b> Information Processing</p> <ul style="list-style-type: none"> <li>Each sense receptor responds to different inputs (electromagnetic, mechanical, chemical), transmitting them as signals that travel along nerve cells to the brain. (MS-LS1-8)</li> </ul> <p><b>CCC:</b> Cause and Effect; Systems and System Models</p> <p><b>zSpace Activities (code)</b></p> <p><b>Nervous System (A033)</b></p> <p><a href="#">Nervous System - Teacher Activity Plan</a></p> <p>Students will dissect the nervous system and a virtual brain. They will explore the nervous system, nerves, connections, and the ways in which the brain communicates with the body.</p> <p><a href="#">Nervous System - Student Worksheet</a></p> <p><a href="#">Nervous System - Student Worksheet GoogleDoc</a></p>	<ul style="list-style-type: none"> <li>Students will use evidence to explain what systems control processes in the human body.</li> <li>Students will use visuals to explain how nerve signals travel.</li> <li>Students will develop and use models to demonstrate how the body senses and reacts to surroundings.</li> </ul> <p><b>Literacy Connection</b></p> <ul style="list-style-type: none"> <li>Integrate with Visuals</li> </ul> <p><b>Vocabulary</b></p> <ul style="list-style-type: none"> <li>neuron</li> <li>synapse</li> <li>brain</li> <li>spinal cord</li> </ul> <p><b>Academic Vocabulary</b></p> <ul style="list-style-type: none"> <li>impulse</li> </ul> <p><b>Connect - TE/SB p. 118</b></p> <ul style="list-style-type: none"> <li>Connect It!</li> <li>Quest Connection</li> <li>Inquiry Warm-Up Lab – How Does Your Knee React?</li> </ul> <p><b>Investigate - TE/SB pp. 119-125</b></p> <ul style="list-style-type: none"> <li><b>Investigate Lab – What are the Parts of the Nervous System?*</b></li> <li>Video – Controlling Processes</li> <li>Interactivity – Humans vs. Computers</li> <li>Model It! (p.123)</li> <li>Reading Check (pp. 120; 123)</li> <li>Literacy Connection (p.42)</li> </ul> <p><b>Synthesize - TE/SB pp. 126-127</b></p> <ul style="list-style-type: none"> <li>Interactivity – Flex Your Reflex</li> <li>Literacy Connection (p.126)</li> <li>Reading Check (p.126)</li> <li>Quest Check-In Interactivity – Why Practice Makes Perfect</li> <li>Quest Check-In</li> </ul> <p><b>Demonstrate – TE/SB p.127</b></p> <ul style="list-style-type: none"> <li>Lesson 5 Check</li> <li>Lesson 5 Quiz</li> </ul> <p>*Denotes accompanying lab video</p>
<p><b>Topic Close</b></p>	<p><b>Topic 2 Enrichment</b></p> <p><b>Topic 2- Lesson 1 Enrichment</b></p>

<ul style="list-style-type: none"> <li>● Topic 2 Assessment and Remediation TE/SB pp. 128-131</li> <li>● Quest Finding and Reflection TE/SB p. 131</li> </ul>	<ul style="list-style-type: none"> <li>● Enrichment – Blood is a Tissue</li> <li>● Interactivity – Advances in Medical Technology</li> <li>● Design Challenge – Using Phenomena – Engineering and Organ</li> </ul> <p><b>Topic 2 - Lesson 2 Enrichment</b></p> <ul style="list-style-type: none"> <li>● Enrichment Activity – Interaction Among Systems</li> <li>● Case Study – Agents of Infection (pp.92-93)</li> <li>● Career Video - Illustrator</li> </ul> <p><b>Topic 2 - Lesson 3 Enrichment</b></p> <ul style="list-style-type: none"> <li>● Enrichment Activity – A Balanced Diet</li> <li>● Careers – Nutritionist (p.105)</li> </ul> <p><b>Topic 2 - Lesson 4 Enrichment</b></p> <ul style="list-style-type: none"> <li>● Enrichment Activity – A Closer Look at Blood Vessels</li> </ul> <p><b>Topic 2 Lesson 5 Enrichment</b></p> <ul style="list-style-type: none"> <li>● Enrichment – Polygraph Test</li> </ul>
<p><b>English Language Learners (ELL) Enhancements</b> To access <a href="#">hyperlinked</a> material, you must be logged into your BPS Google Drive</p>	<p><b><u>Listening</u></b></p> <ul style="list-style-type: none"> <li>● <b><u>Cross- Linguistic Practices</u></b>: Gives students opportunities to make connections between what they hear and their home language (For example, allow students to listen to a passage and identify cognates).</li> <li>● <b><u>Activating Prior Knowledge</u></b> Activating prior knowledge means both eliciting from students what they already know and building initial knowledge that they need in order to access upcoming content.</li> <li>● <b><u>Visuals</u></b> - GIFs, pictures- will assist students in understanding what they are listening to. Use <b><u>visual thinking strategies</u></b> to set the lens for learning.</li> <li>● Video to review or introduce a topic – use <b><u>closed captioning</u></b> to help students see the words and pronunciations while they listen to the content.</li> <li>● <b><u>Word stretching / Vowel stretching</u></b> when instructing allows students to listen closely to the pronunciation of the word.</li> <li>● <b><u>Performance Level Descriptors</u></b> this document provides teachers with a description of what output they can expect from students based on earned NYSESLAT levels in the modality of listening. Scroll for grade 7.</li> </ul> <p><b><u>Speaking</u></b></p> <ul style="list-style-type: none"> <li>● <b><u>Sentence Stems/Frames</u></b> - to begin a sentence - such as <i>Evolution is...</i> or <i>I think that evolution is...</i></li> <li>● <b><u>Academic Conversation Starters</u></b>: Have a visual of a list of academic sentence starters that students can refer to in a discussion.</li> <li>● <b><u>Choral Reading</u></b> - To build fluency, self-confidence and motivation with <b><u>reading/speaking</u></b>.</li> <li>● Create <b><u>movement</u></b> to go with the word. Movement can be a motivating factor, as well as a kinesthetic tool for conceptualizing the rhythm and flow of fluent reading while triggering brain function for optimal learning.</li> <li>● <b><u>Performance Level Descriptors</u></b> This document provides teachers with a description of what output they can expect from students based on earned NYSESLAT levels in the modality of speaking. Scroll for grade 7.</li> </ul> <p><b><u>Reading</u></b></p> <ul style="list-style-type: none"> <li>● <b>Supplementary Text</b> to help reinforce concepts.</li> </ul>

	<ul style="list-style-type: none"> <li>● <a href="#">Visual Aids</a> - Pictures or models to support vocabulary words and concepts</li> <li>● Video to review or introduce a topic - use <a href="#">closed captioning</a> to help students read along while they listen to the content.</li> <li>● <a href="#">4 Square / Frayer models</a> to help students gain a deeper understanding of vocabulary.</li> <li>● <a href="#">Highlighting</a> important text to assist students in answering questions after the reading.</li> <li>● <a href="#">Chunking</a>-Break reading of text into chunks or paragraphs</li> <li>● <a href="#">Vocabulary Morphology</a>- Morphology relates to the segmenting of words into affixes (prefixes and suffixes) and roots or base words, and the origins of words. Understanding that words connected by meaning can be connected by spelling can be critical to expanding a student’s vocabulary.</li> <li>● <a href="#">Performance Level Descriptors</a> this document provides teachers with a description of what output they can expect from students based on earned NYSESLAT levels in the modality of reading. Scroll for grade 7.</li> </ul> <p><b><u>Instructional Accommodations (depending on the student’s needs)</u></b></p> <ul style="list-style-type: none"> <li>● <b>Extended time</b> for tests in class, projects and assignments</li> <li>● <b>Directions read.</b> Broken down as necessary</li> <li>● <b>Model</b> how to complete the activity in the lesson</li> <li>● <b>Oral simplification</b> of directions or questions</li> <li>● <b>Translated version</b> of test when available. Student may have both version English and native language version</li> <li>● Use of <a href="#">approved bilingual glossaries</a> from NYS in each subject</li> </ul>
<p><b>Special Education Modifications</b></p> <p>Special Education students must have accommodations as per Individual Educational Plan (IEP)</p>	<p><b><u>Instructional</u></b></p> <ul style="list-style-type: none"> <li>● <b>Pre-teach</b> vocabulary</li> <li>● Use <b>picture vocabulary</b></li> <li>● Scaffold <b>Depth of Knowledge</b> questions</li> <li>● Provide copy of notes/<b>notes in “cloze”</b> form</li> <li>● Use of <b>Think, Pair, and Share</b> strategy to help process information</li> <li>● <b>Scaffold</b> written assignments with the use of <b>graphic organizers</b></li> <li>● Allow for <b>multiple ways to respond</b> (verbal, written, response board)</li> <li>● Provide <b>model of performance task</b></li> <li>● <b>Modify informational text</b> to fit the needs of the students</li> <li>● Provide a digital or paper <b>interactive notebook</b></li> <li>● Present complex <b>tasks in multiple ways</b></li> <li>● Provide <b>mnemonic strategies</b> for scientific concepts</li> </ul> <p><b><u>Technology:</u></b></p> <ul style="list-style-type: none"> <li>● <b>Audio</b> reading of text</li> <li>● <b>Text to type</b> functions</li> <li>● <b>Videos</b> to clarify/visualize science concepts</li> <li>● <b>Record class lecture/discussions</b> and make accessible to student</li> <li>● <b>Nearpod</b>- interactive presentations of notes</li> </ul> <p><b><u>In Class Assessments</u></b></p> <ul style="list-style-type: none"> <li>● Provide <b>multiple options</b> for projects</li> <li>● <b>Use of timer</b> in class</li> <li>● Break all complex tasks into chunks</li> </ul>
<p><b>Step Up to Writing</b></p>	<ul style="list-style-type: none"> <li>● Easy Two-Column Notes</li> <li>● Breaking Down Definitions</li> <li>● Paragraph Frame- What I Learned</li> </ul>



Grade 7 Unit 1 Life Science

<p>Step Up to Writing Materials can be found in BPS Science K-12 Schoology Folder □ Grade 5 Resources □ Grade 5 SUTW materials</p>	<ul style="list-style-type: none"><li>● <a href="#">Performance Level Descriptors</a> this document provides teachers with a description of what output they can expect from students based on earned NYSESLAT levels in the modality of writing. Scroll for grade 7.</li></ul>
<p><b>Culturally and Linguistically Responsive Teaching (CLRT) in the Science Classroom</b></p>	<ul style="list-style-type: none"><li>● Materials, resources, and/or discussions address diverse cultural backgrounds and real-world applications</li><li>● Artifacts (posters, charts, etc.) in the science classroom are representative of the cultures of the student population</li><li>● All students are given an opportunity to engage in science discourse</li><li>● Teacher demonstrates high expectations for all students</li></ul>