5th Grade Practice Science MEAP Review Resources

Directions	 Take the practice MEAP test. (Take both part 1 and 2 found on DataDirector) <u>Click to view</u> <u>directions for finding assessments and printing bubble sheets in DataDirector.</u> Analyze practice test data and choose lessons to teach or web resources to use. *Highlighted GLCEs are the most frequently missed concepts and should have more time spent reviewing. *Use the key concepts to write questions as students explore the websites either in class or for homework. To use for a 15 minute review, ask questions from the key concepts list or MEAP practice test. Use the web resources to verify student answers. K-4th Grade Companion Document from MDE: <u>http://www.mi.gov/documents/mde/K-4_Science_GLCE_Companion_Document_v.1.09_2_264479_7.pdf</u> 	
GLCE	Lesson Resource	Web Resource
S.IP.04.13	Teacher Lesson Plan: Virtual Peppered Moths	Peppered Moths Interactive
S.IP.04.16	Student Journal Pages: Virtual Peppered Moths	http://www.biologycorner.com/worksheets/pepperedm
<mark>S.IA.04.11</mark>	3 Day Lesson	<u>oth.html</u>
S.IA.04.12 S.IA.04.13 S.IA.04.15 S.RS.04.11	Key Concepts for Relationships and Requirements of Living Things	Observable traits and physical characteristics <u>http://www.mbgnet.net</u> Survive and reproduce in their environments
S.RS.04.14 S.RS.04.15	 Plants and animals have basic requirements for maintaining life, which include the need for air, water, and source of energy (food). 	http://sciencenetlinks.com/media/filer/2011/10/07/evolutio n.swf
S.RS.04.18 L.OL.03.32 L.EV.03.12 L.EV.04.22	 Organisms have observable traits and physical characteristics that help them survive and reproduce in their environments. Organisms are a part of a food chain or food web where food/energy is supplied by plants, which need light to produce food/energy. 	Food Chain http://magma.nationalgeographic.com/ngexplorer/0309 /quickflicks/index.html Fossils http://www.fossilsforkids.com

	 Plants and animals can be classified by observable traits and physical characteristics. Fossils provide evidence that life forms have changed over time and were influenced by changes in environmental conditions 	
S.IP.04.11 S.IA.04.11 S.IA.04.15 S.RS.04.11 S.RS.04.14 S.RS.04.15 P.FM.03.35 P.FM.03.36 P.FM.03.37 P.FM.03.38	 Teacher Lesson Plan: Force and Motion Student Journal Pages Force and Motion 3 day lesson Key Concepts for Change in Motion The position of the observer and object affect the description of motion. Forces are pushes and pulls. Gravity is the force that pulls objects to the Earth. Motion is affected by the strength of the force and the mass of the object. 	Force and mass of objects http://www.bbc.co.uk/schools/scienceclips/ages/10_11 /forces_action.shtml Friction and Talk about Gravity http://www.bbc.co.uk/schools/scienceclips/ages/8_9/fri ction.shtml
S.IP.04.11 S.IP.04.13 S.IP.04.14 S.IA.04.11 S.RS.04.11 S.RS.04.15 P.EN.03.31 P.EN.03.32	 Teacher Lesson Plan: Sound Student Journal Pages: Sound 3 day lesson Key Concepts for Light and Sound Light and sound are forms of energy. Light and sound can be described by their properties. Light travels in a straight path. Vibrations produce sound. 	Sound waves as energy and properties <u>http://www.scienceworld.ca/flash_games/lever.html</u> go to the sound game Vibrations produce sound <u>http://www.bbc.co.uk/schools/scienceclips/ages/9_10/c</u> <u>hanging_sounds.shtml</u>

WEB RESOURCES FOR OTHER GLCEs			
	Light & Sound	Light and sound as energy http://www.sciencemuseum.org.uk/onlinestuff/games/	
EN.03.11	Light and Sound As Energy	<u>energy flows.aspx</u> <u>http://www.need.org/needpdf/infobook_activities/Elem</u> Info/IntroE.pdf	
PM.03.51	Materials are heated more than others by light	Heated by light	
<mark>РМ.03.52</mark>	Need light to see objects: light reflects	http://www.ehow.com/info 8118565 science-effect- color-heat-absorption.html (easy quick experiment - 1 hour lesson)	
		Reflectionhttp://www.scienceworld.ca/flash_games/lever.htmlgoto the light game	
Review all GLCES under that unit	 Key Concepts for Structures and Functions of Living Things (3rd Grade) Plant and animal structures have specific functions. Plants and animals can be classified by observable characteristics. Plants and animals have observable characteristics that allow them to live and survive in their environment. 	Plants and Animals http://classroom.jc-schools.net/sci-units/plants- animals.htm	

Review all GLCES under that unit	 Key Concepts for Heat, Electricity and Magnetism (4th Grade) Heat and electricity are forms of energy. Evidence of energy is change. Electrical circuits demonstrate a transfer of energy. Magnetism is a physical property of matter. Heat can be transferred from one substance or object to another 	Electromagnets http://www.harcourtschool.com/activity/electromagnet § http://phet.colorado.edu/en/simulation/faraday
Review all GLCES under that unit	 Key Concepts for Properties and Changes of Matter (4th Grade) All objects have physical properties that can be measured. Matter exists in different states. Matter can change from one state to another by heating and cooling. 	States change by heating and cooling http://www.harcourtschool.com/activity/states of mat ter
Review all GLCES under that unit	 Key Concepts for Sun, Moon, and Earth (4th Grade) The moon and the Earth move in a predictable pattern around the sun. The predictable patterns of the Earth and moon define a day, year, and moon phases. The sun appears to move in a predictable pattern across the sky. 	Seasons http://astro.unl.edu/naap/motion1/animations/seasons _ecliptic.swf Predictable Patterns http://highered.mcgraw- hill.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sit es/dl/free/0072482621/78778/Lunar Nav.swf::Lunar%2 OPhases%20Interactive
Review all GLCES under that unit	 Key Concepts for Earth Materials, Change, and Resources (3RD Grade) The Earth has natural resources that are 	Renewable/Non-renewable http://www.fossweb.com/modules3- 6/Water/activities/resourceid.html

 renewable or non-renewable. Humans are dependent on and affect their environments in helpful and harmful ways. The Earth's surface changes through slow processes and fast processes. Earth materials have useful properties and can enhance the quality of life. 	Earth's surface: slow and fast processes http://sciencenetlinks.com/tools/shape-it-up Misconception http://beyondpenguins.ehe.osu.edu/issue/earths-changing- surface/common-misconceptions-about-weathering-erosion- volcanoes-and-earthquakes
 Key Concepts for 2nd Grade Measurement of Properties Objects and substances can be described by their properties and through measurement. Objects and substances can be classified as single substances or mixtures and single substances can be combined to make mixtures. 	
 Plant Life Plants need air, water, and sunlight to survive. Plants have a life cycle that includes seed, seedling or young plant, adult plant, flower, fruit and seed. Plants have characteristics that are passed from the parent plant. 	http://www.scholastic.com/play/root.htm http://www.songsforteaching.com/bananaslugstringband/roots stemsleaves.htm
 Earth surface has many major landform types. Uses and Properties of Water Water can come from a variety of sources. 	
	 Humans are dependent on and affect their environments in helpful and harmful ways. The Earth's surface changes through slow processes and fast processes. Earth materials have useful properties and can enhance the quality of life. Key Concepts for 2nd Grade Measurement of Properties Objects and substances can be described by their properties and through measurement. Objects and substances can be classified as single substances or mixtures and single substances can be combined to make mixtures. Plant Life Plants need air, water, and sunlight to survive. Plants have a life cycle that includes seed, seedling or young plant, adult plant, flower, fruit and seed. Plants have characteristics that are passed from the parent plant. Earth's Surface Features Earth surface has many major landform types. Uses and Properties of Water