**8th Grade Practice Science MEAP Review Resources**

1. **Use the Promethean flipchart to take a practice MEAP test. You can have students write their answers on a scantron or piece of paper.**
2. **Analyze practice test data and choose lessons to teach or web resources to use.**

**There are two lessons attached under the life science unit.**

1. [**Photosynthesis Lesson**](http://sccresa.org/downloads/toolboxes/teacher_photo_20120910_114901_16.pdf) **and**  [**Student Journal**](http://sccresa.org/downloads/toolboxes/student_photo_packet_20120910_114847_14.pdf) **(3days)**
2. [**Forest Management**](http://sccresa.org/downloads/toolboxes/teacher_forest_management_20120910_114854_15.pdf) **and**  [**Student Journal**](http://sccresa.org/downloads/toolboxes/student_forest_packet_20120910_114809_13.pdf) **(3 days)**

**\*Highlighted GLCEs are the most frequently missed concepts and should have more time spent**

**Directions** **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.

**5th-7th Grade Companion Document from MDE:**

[http://www.mi.gov/documents/mde/5-7\_Science\_GLCE\_Companion\_Document\_v.1.09\_2\_264472\_7.pd](http://www.mi.gov/documents/mde/5-7_Science_GLCE_Companion_Document_v.1.09_2_264472_7.pdf)f

**Earth Science**

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|  | **GLCE** | | | **Lesson Resources** | **Web Resources** |  |
|  |  |  |  |  |  |  |
|  | IP.07.16 |  |  | **Key Concepts for Position and Motion of Objects in the Sky** | **Season Simulator:** |  |
|  | IP.07.13 |  |  | **(5th Grade)** | [http://astro.unl.edu/naap/motion1/animations/seasons](http://astro.unl.edu/naap/motion1/animations/seasons_ecliptic.swf)\_ |  |
|  | RS.07.17 |  |  |  | [ecliptic.sw](http://astro.unl.edu/naap/motion1/animations/seasons_ecliptic.swf)f |  |
|  | IA.07.13 | |  | • The sun is the central and largest body in the solar |  |  |
|  |  |  |  | system. |  |  |
|  |  |  |  | • The sun’s warming of the Earth and tilt of the Earth on | **Tide Simulator:** |  |
|  |  |  |  | its axis has an important connection to the seasons. | [http://aspire.cosmic-ray.org/labs/tides/menu\_tide.sw](http://aspire.cosmic-ray.org/labs/tides/menu_tide.swf)f |  |
|  |  |  |  | • Earth’s motion is the basis for measuring time. | **Objects in the sky move in predictable patterns** |  |
|  |  |  |  | • Objects in the sky move in regular and predictable |  |
|  |  |  |  | patterns around the Sun. | [http://highered.mcgraw](http://highered.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sites/dl/free/0072482621/78778/Lunar_Nav.swf::Lunar%20Phases%20Interactive)- |  |
|  |  |  |  | • The sun, stars and constellations appear to move in | [hill.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sit](http://highered.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sites/dl/free/0072482621/78778/Lunar_Nav.swf::Lunar%20Phases%20Interactive)e |  |
|  |  |  |  | predictable patterns across the sky. | [s/dl/free/0072482621/78778/Lunar\_Nav.swf::Lunar%20](http://highered.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sites/dl/free/0072482621/78778/Lunar_Nav.swf::Lunar%20Phases%20Interactive)P |  |
|  |  |  |  | • Gravity is the force that keeps the planets in orbit | [hases%20Interactiv](http://highered.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::800::600::/sites/dl/free/0072482621/78778/Lunar_Nav.swf::Lunar%20Phases%20Interactive)e |  |
|  |  |  |  | around the sun and without it planets would continue |  |  |
|  |  |  |  | in a straight path. |  |  |

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|  | IP.07.16 |  |  | **Key Concepts for Composition, Properties, and Changes of** | **Rock Cycle** |  |
|  | IP.07.13 |  |  | **the Earth** | [**http://www.learner.org/interactives/rockcycle/index.h**](http://www.learner.org/interactives/rockcycle/index.html)**t** |  |
|  | RS.07.17 |  |  | **(6th Grade)** | [**m**](http://www.learner.org/interactives/rockcycle/index.html)**l** |  |
|  |  |  |  |
|  | IA.07.13 | |  |  | **Earth Surface Change gradually/rapidly** |  |
|  |  |  |  | • Earth materials have properties that make the | [http://science-class.net/Biology/Photosynthesis.ht](http://science-class.net/Biology/Photosynthesis.htm)m |  |
|  |  |  |  | materials useful. |  |  |
|  |  |  |  | • Earth materials and the surface of the Earth change |  |  |
|  |  |  |  | gradually and rapidly. |  |  |
|  |  |  |  | • The Earth has magnetic properties. |  |  |

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|  | IP.07.16 | | | |  |  |  |  |  |  |  |  |  |  |  |  | **Key Concepts for Plate Tectonics and Fossils** | **Plate Tectonics** |  |
|  | IP.07.13 | | | |  |  |  |  |  |  |  |  |  |  |  |  | **(6th Grade)** | [http://www.learner.org/interactives/dynamicearth/inde](http://www.learner.org/interactives/dynamicearth/index.html)x |  |
|  | RS.07.17 | | | |  |  |  |  |  |  |  |  |  |  |  |  |  | [.htm](http://www.learner.org/interactives/dynamicearth/index.html)l |  |
|  | IA.07.13 | | | | | |  |  |  |  |  |  |  |  |  |  | • The surface of the Earth undergoes gradual and rapid |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | changes. | **Fossils/Geologic Time** |  |
|  |  |  |  |  | |  |  |  |  |  |  |  |  |  |  |  | • Plate tectonics is the central organizing theory of the | No valuable link was found. |  |
|  | ST.06.42 | | | | | |  |
|  | Describe | | | | | | how | | | | | | |  |  |  | field of geology and explains major landforms and |  |  |
|  | fossils provide | | | | | | | | | | | | |  |  |  | geologic events. |  |  |
|  | important | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |
|  | evidence | | | | |  | |  |  |  |  |  |  | |  |  |  |  |  |
|  | P.07.16 | | |  | | | |  | |  |  |  |  | |  |  | **Key Concepts for Fluid Earth Systems and Human Activities** | **Composition of the atmosphere at different elevations** |  |
|  | IP.07.13 | | |  |  | | |  | |  |  |  |  | |  |  | **(7th Grade)** | [http://www.fossweb.com/modulesMS/kit\_multimedia](http://www.fossweb.com/modulesMS/kit_multimedia/WeatherandWater/atmosphericdata/elevator.html)/ |  |
|  |  |  |
|  | RS.07.17 | | | |  | |  |  | |  |  |  |  | |  |  |  | [WeatherandWater/atmosphericdata/elevator.htm](http://www.fossweb.com/modulesMS/kit_multimedia/WeatherandWater/atmosphericdata/elevator.html)l |  |
|  | IA.07.13 | | | | | |  |  | |  |  |  |  | |  |  | • The Sun is the major source of energy for phenomenon | (sign up for an account- it is free) go to Weather and |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | on Earth. | Water Multimedia box |  |
|  | ES.07.74\* | | | | | | |  | |  |  |  |  | |  |  | • The Sun’s warming relates to weather, climate and the | [http://sepuplhs.org/middle/iaes/students/simulations/s](http://sepuplhs.org/middle/iaes/students/simulations/sepup_atmosphere.html)e |  |
|  | Weather | | | | | | | cond. | | | | | | | |  | water cycle. | [pup\_atmosphere.htm](http://sepuplhs.org/middle/iaes/students/simulations/sepup_atmosphere.html)l |  |
|  | that come with | | | | | | | | | | | | | | |  | • Human interaction and use of natural resources affects |  |  |
|  | frontal | |  | | | | | | |  |  |  |  | |  |  | the environment. | **Weather** |  |
|  | boundaries | | | | | | | | | |  |  |  | |  |  | • The Earth’s atmosphere is a mixture of gases and water | [http://www.iknowthat.com/com/App?File=ScienceLab.h](http://www.iknowthat.com/com/App?File=ScienceLab.htm&Type=S&SWF=weather%2Fscience_desk&App=Science+Lab&SkipGuestWarning=true)t |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | vapor. | [m&Type=S&SWF=weather%2Fscience\_desk&App=Scien](http://www.iknowthat.com/com/App?File=ScienceLab.htm&Type=S&SWF=weather%2Fscience_desk&App=Science+Lab&SkipGuestWarning=true)c |  |
|  | ES.07.82 | | | | | |  | | |  | |  |  | |  |  |  | [e+Lab&SkipGuestWarning=tru](http://www.iknowthat.com/com/App?File=ScienceLab.htm&Type=S&SWF=weather%2Fscience_desk&App=Science+Lab&SkipGuestWarning=true)e |  |
|  | Analyze | | | | | | the | | | | |  |  | |  |  |  | **Frontal Boundaries** |  |
|  | flow of water | | | | | | | | | | | |  | |  |  |  | [http://www.classzone.com/books/earth\_science/terc/c](http://www.classzone.com/books/earth_science/terc/content/visualizations/es2002/es2002page01.cfm?chapter_no=visulatization)o |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | [ntent/visualizations/es2002/es2002page01.cfm?chapte](http://www.classzone.com/books/earth_science/terc/content/visualizations/es2002/es2002page01.cfm?chapter_no=visulatization)r |  |
|  | FE.07.12\* | | | | | | | | |  | | | | |  |  |  | [\_no=visulatizatio](http://www.classzone.com/books/earth_science/terc/content/visualizations/es2002/es2002page01.cfm?chapter_no=visulatization)n |  |
|  | Composition | | | | | | | | | of | | | | | |  |  | [http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/mtr](http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/mtr/af/frnts/cfrnt/prcp.rxml)/ |  |
|  | the |  | | | | | | | | | | | | |  |  |  | [af/frnts/cfrnt/prcp.rxm](http://ww2010.atmos.uiuc.edu/%28Gh%29/guides/mtr/af/frnts/cfrnt/prcp.rxml)l |  |
|  | atmosphere at | | | | | | | | | | | | | |  |  |  |  |  |
|  | diff. elevations | | | | | | | | | | | | | |  |  |  | **Water Cycle & Watersheds** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | [http://earthguide.ucsd.edu/earthguide/diagrams/water](http://earthguide.ucsd.edu/earthguide/diagrams/watercycle)c |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | [ycl](http://earthguide.ucsd.edu/earthguide/diagrams/watercycle)e |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | [http://techalive.mtu.edu/meec/module01/title.ht](http://techalive.mtu.edu/meec/module01/title.htm)m |  |