**7th 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

**Physical Science**

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|  | **GLCE** | **Lesson Resources** | **Web Resource** |  |
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|  | IP.07.16 |  |  |  |  |  |  | **Key Concepts for Measuring Changes in Motion** | **Teacher Tube: The SPEED IS DISTANCE OVER TIME Song** |  |
|  | IP.07.13 |  |  |  |  |  |  | **(5th Grade)** | **- Mr. Edmonds**: |  |
|  | RS.07.17 |  |  |  |  |  |  | • Every force is part of an interaction between two |  [http://www1.teachertube.com/viewVideo.php?title=Mr\_\_D\_](http://www1.teachertube.com/viewVideo.php?title=Mr__D___Edmonds___Speed_Is_Distance_Over_Time_Song&video_id=118880)\_ |  |
|  | IA.07.13 |  |  |  |  |  | objects. |  [\_Edmonds\_\_\_Speed\_Is\_Distance\_Over\_Time\_Song&video\_id](http://www1.teachertube.com/viewVideo.php?title=Mr__D___Edmonds___Speed_Is_Distance_Over_Time_Song&video_id=118880)= |  |
|  |  |  |
|  |  |  |  |  |  |  |  | • Forces are pushes and pulls that can be contact or |  [11888](http://www1.teachertube.com/viewVideo.php?title=Mr__D___Edmonds___Speed_Is_Distance_Over_Time_Song&video_id=118880)0 |  |
|  |  |  |  |  |  |  |  |  | **Contact/Non-contact Forces** |  |
|  | FM.05.21 Disting |  |  | non-contact forces. |  |
|  |  |  |  [http://www.physicsclassroom.com/class/newtlaws/u2l2](http://www.physicsclassroom.com/class/newtlaws/u2l2b.cfm)b |  |
|  | uish between |  |  |  | • Motion is described relative to something else (point |  |
|  | contact and | non- |  | of reference). |  |  |
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|  | contact forces |  |  | • A change in motion is due to unbalanced forces. | .cfm |  |
|  |  |  |  |  |  |  |  |  | • No change in motion and an object at rest are due to | **Balanced/Unbalanced** |  |
|  | FM.05.42\* |  |  |  | balanced forces. |  |
|  | Describe motion |  |  |  [http://www.engineeringinteract.org/resources/parkwor](http://www.engineeringinteract.org/resources/parkworldplot/flash/concepts/balancedandun.htm)l |  |
|  | by distance, time |  |  |  [dplot/flash/concepts/balancedandun.ht](http://www.engineeringinteract.org/resources/parkworldplot/flash/concepts/balancedandun.htm)m |  |
|  | and direction |  |  |  |  [http://lgfl.skoool.co.uk/content/keystage3/Physics/pc/l](http://lgfl.skoool.co.uk/content/keystage3/Physics/pc/learningsteps/BAFLC/launch.html)e |  |
|  |  |  |  |  |  |  |  |  |  |  [arningsteps/BAFLC/launch.htm](http://lgfl.skoool.co.uk/content/keystage3/Physics/pc/learningsteps/BAFLC/launch.html)l |  |
|  |  |  |  |  |  |  |  |  |  |  [http://lgfl.skoool.co.uk/content/keystage3/Physics/pc/l](http://lgfl.skoool.co.uk/content/keystage3/Physics/pc/learningsteps/UBFLC/launch.html)e |  |
|  |  |  |  |  |  |  |  |  |  |  [arningsteps/UBFLC/launch.htm](http://lgfl.skoool.co.uk/content/keystage3/Physics/pc/learningsteps/UBFLC/launch.html)l |  |
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|  | IP.07.16 |  |  |  | **Key Concepts for Matter and Energy** | **Potential/Kinetic Energy** |  |
|  | IP.07.13 |  |  |  | **(6th Grade)** |  [http://www.eduplace.com/kids/hmsc/activities/simulat](http://www.eduplace.com/kids/hmsc/activities/simulations/gr4/unitf.html)i |  |
|  | RS.07.17 |  |  |  |  |  [ons/gr4/unitf.htm](http://www.eduplace.com/kids/hmsc/activities/simulations/gr4/unitf.html)l |  |
|  | IA.07.13 |  |  | • Objects and substances in motion have kinetic |  |  |
|  |  |  |  |  |  |  |  |  | energy. |  [http://phet.colorado.edu/en/simulation/energy-skate](http://phet.colorado.edu/en/simulation/energy-skate-park)- |  |
|  |  |  |  |  |  |  |  |  | • Objects and substances have potential energy due |  [par](http://phet.colorado.edu/en/simulation/energy-skate-park)k |  |
|  |  |  |  |  |  |  |  |  | to their relative position in a system. |  |  |
|  |  |  |  |  |  |  |  |  | • Heat energy is transferred by radiation, conduction, | **Radiation/Conduction/Convection** |  |
|  |  |  |  |  |  |  |  |  | and convection. |  [http://www.fossweb.com/modulesMS/kit\_multimedia](http://www.fossweb.com/modulesMS/kit_multimedia/WeatherandWater/matterandenergy/heattransfer.html)/ |  |
|  |  |  |  |  |  |  |  |  | • Physically changing states of matter does not create |  [WeatherandWater/matterandenergy/heattransfer.htm](http://www.fossweb.com/modulesMS/kit_multimedia/WeatherandWater/matterandenergy/heattransfer.html)l |  |
|  |  |  |  |  |  |  |  |  | a new substance. | (Sign up for account – it is free) |  |

* Everything we do is connected to energy in one form

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|  |  |  | or another. | **Changes in State** |
|  |  |  |  |  [http://www.footprints-science.co.uk/states.ht](http://www.footprints-science.co.uk/states.htm)m |
|  |  |  |  |  [http://www.glencoe.com/sites/common\_assets/science](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E17/E17.html)/ |
|  |  |  |  |  [virtual\_labs/E17/E17.htm](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E17/E17.html)l |
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|  | IP.07.16 |  | **Key Concepts for Waves and Energy** | **Energy and Waves** |
|  | IP.07.13 |  | **(7th Grade)** |  [http://www.youtube.com/watch?v=aIcLzDB8NR8&featu](http://www.youtube.com/watch?v=aIcLzDB8NR8&feature=relmfu)r |
|  | RS.07.17 |  |  |  [e=relmf](http://www.youtube.com/watch?v=aIcLzDB8NR8&feature=relmfu)u |
|  | IA.07.13 | • Waves are produced through vibrations. |  [http://www.youtube.com/watch?v=tRzl7Z\_VC0](http://www.youtube.com/watch?v=tRzl7Z_VC08)8 |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | • Waves transfer energy when they interact with | **Waves and Matter** |  |
|  | EN.07.31 Identify |  | matter. |  [http://science-class.net/Physics/waves.ht](http://science-class.net/Physics/waves.htm)m |  |
|  | examples of |  |  |  |  |  |  |  | • Nuclear reactions that take place in the sun produce | Click on:  What are some characteristics of waves? |  |
|  | waves |  |  |  |  |  |  |  |  |  |  |  |  | heat and light. |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | • A fraction of the light energy from the sun provides |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | energy to heat the Earth. |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | IP.07.16 |  |  |  |  |  |  |  |  |  |  | **Key Concepts for Physical and Chemical Properties and** | **Physical and Chemical Properties** |  |
|  | IP.07.13 |  |  |  |  |  |  |  |  |  |  | **Changes in Matter** |  [http://www.chem4kids.com/files/matter\_chemphys.ht](http://www.chem4kids.com/files/matter_chemphys.html)m |  |
|  | RS.07.17 |  |  |  |  |  |  |  |  |  |  | **(7th Grade)** | l |  |
|  |  |  |
|  | IA.07.13 |  |  |  |  |  |  |  |  |  |  |  [http://jc](http://jc-schools.net/write/sci/physchem_files/frame.htm)- |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | • Matter is made up of atoms and molecules that are |  [schools.net/write/sci/physchem\_files/frame.ht](http://jc-schools.net/write/sci/physchem_files/frame.htm)m |  |
|  | PM.07.24 List |  |  |  |  | represented through models. |  |  |
|  | phys. and chem. |  |  | • Elements are chemical substances that make up all | **Atoms and Molecules** |  |
|  | prop. of elements |  |  | other substances and are composed of one kind of | <http://www.strangematterexhibit.com/> (zoom inside |  |
|  | and compounds |  |  | atom. | stuff) |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | • Elements are organized on the Periodic Table in |  [http://www.glencoe.com/sites/common\_assets/science](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E02/E02.html)/ |  |
|  | PM.07.23\* |  |  |  | families. |  [virtual\_labs/E02/E02.htm](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E02/E02.html)l |  |
|  | Illustrate the |  | • Physical and chemical properties identify substances |  [http://phet.colorado.edu/en/simulation/build-an-ato](http://phet.colorado.edu/en/simulation/build-an-atom)m |  |
|  | structure of |  |  | and determine when a chemical change has |  |  |
|  | molecules |  |  | occurred. | **Periodic Table** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  [http://www.learner.org/interactives/periodic/about.htm](http://www.learner.org/interactives/periodic/about.html)l |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  [http://www.youtube.com/watch?v=d0zION8xjb](http://www.youtube.com/watch?v=d0zION8xjbM)M |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | **Properties of Elements and Compounds** |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  [http://www.glencoe.com/sites/common\_assets/science](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E21/E21.html)/ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  [virtual\_labs/E21/E21.htm](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E21/E21.html)l |  |