

Champion Theme Middle School

Transition Summer Learning Activities 6th Grade Science

Greetings Parents and Students!

Thank you for your interest in attending The Champion School! Welcome to our family! As you prepare for the transition to 6th grade Earth science, please view the 1st semester standards and activities to be completed and submitted during the first couple weeks of the 2014-2015 school year. These activities are required for every Champion student and all grades will be put into the grade book as a lab grade (20%). These activities are designed to expose and prepare students for the Georgia Performance Standards that will be taught and mastered during the first semester. Please have students to create a cover page (*First and Last name, Parents Name, Current Address, Phone Number and 1 long term goal / 1 short term goal*). The cover sheet and 4 activity sheets should be placed in a report cover for submission.

Please review the standards and tasks below:
(Detailed standards and KWLH activity sheets are below chart)

Domain	Standards	Tasks	Point Value
Astronomy	S6E1	View links below and search standard topics to complete the KWLH activity sheet # 1	25 Points
Astronomy	S6E2	View links below and search standard topics to complete the KWLH activity sheet # 2	25 Points
Geology	S6E5	View links below and search standard topics to complete the KWLH activity sheet # 3	25 Points
Geology	S6E6	View links below and search standard topics to complete the KWLH activity sheet # 4	25 Points
TOTAL POINTS			100 Points

Astronomy S6E1 Links:

Historical Views

<https://www.youtube.com/watch?v=UtOEnTiAZIU>

<http://studyjams.scholastic.com/studyjams/jams/science/solar-system/universe.htm>

Day & Night

<http://studyjams.scholastic.com/studyjams/jams/science/solar-system/day-on-earth.htm>

Solar System & Planets

<https://www.youtube.com/watch?v=mVMTDjKDbws>

<https://www.youtube.com/watch?v=grYRIyzZ1bw>

Astronomy S6E2 Links:

Phases of the Moon

<http://studyjams.scholastic.com/studyjams/jams/science/solar-system/moon.htm>

<https://www.youtube.com/watch?v=79M2ISVZiY4>

Lunar & Solar Eclipse

<https://www.youtube.com/watch?v=O-X4QmWpjBM>

Seasons

<https://www.youtube.com/watch?v=XuJoh8gi05g>

<http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/seasons.htm>

Geology S6E5 Links:

Layers of the Earth

https://www.youtube.com/watch?v=Jf8F_CLWeak

<https://www.youtube.com/watch?v=N9ncfAsmiSg>

Rocks & Minerals

<https://www.youtube.com/watch?v=-f9wrB5-yEY>

<https://www.youtube.com/watch?v=rkGVE6wNAzo>

Plate Tectonics

https://www.youtube.com/watch?v=1-HwPR_4mP4

<https://www.youtube.com/watch?v=engPC9hbjqM>

Geology S6E6 Links:

Soil Profile

<https://www.youtube.com/watch?v=ob2AMqZMLiw>

Energy Resources

<http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/natural-resources.htm>

<https://www.youtube.com/watch?v=LlNeM6qZsHk>

Conservation

<https://www.youtube.com/watch?v=1-g73ty9v04>

K W L H Activity Sheet # 1

Astronomy S6E1

<i>K</i>	<i>W</i>	<i>L</i>	<i>H</i>
<p><i>What you already know about the standard.</i></p>	<p><i>What you want to know about the standard.</i></p>	<p><i>What you learned after viewing links and researching standard.</i></p>	<p><i>How you will follow up with teacher when school starts. Create at least 3 questions to ask the teacher about this standard after your short review.</i></p>

K W L H Activity Sheet # 2

Astronomy S6E2

<i>K</i>	<i>W</i>	<i>L</i>	<i>H</i>
<p style="text-align: center;"><i>What you already know about the standard.</i></p>	<p style="text-align: center;"><i>What you want to know about the standard.</i></p>	<p style="text-align: center;"><i>What you learned after viewing links and researching standard.</i></p>	<p style="text-align: center;"><i>How you will follow up with teacher when school starts. Create at least 3 questions to ask the teacher about this standard after your short review.</i></p>

K W L H Activity Sheet # 3

Geology S6E5

<i>K</i>	<i>W</i>	<i>L</i>	<i>H</i>
<p><i>What you already know about the standard.</i></p>	<p><i>What you want to know about the standard.</i></p>	<p><i>What you learned after viewing links and researching standard.</i></p>	<p><i>How you will follow up with teacher when school starts. Create at least 3 questions to ask the teacher about this standard after your short review.</i></p>

K W L H Activity Sheet # 4

Geology S6E6

<i>K</i>	<i>W</i>	<i>L</i>	<i>H</i>
<p><i>What you already know about the standard.</i></p>	<p><i>What you want to know about the standard.</i></p>	<p><i>What you learned after viewing links and researching standard.</i></p>	<p><i>How you will follow up with teacher when school starts. Create at least 3 questions to ask the teacher about this standard after your short review.</i></p>

1ST Semester Earth Science Standards

“ASTRONOMY”

S6E1. Students will explore current scientific views of the universe and how those views evolved.

- a. Relate the Nature of Science to the progression of basic historical scientific models (geocentric, heliocentric) as they describe our solar system, and the Big Bang as it describes the formation of the universe.
- b. Describe the position of the solar system in the Milky Way galaxy and the universe.
- c. Compare and contrast the planets in terms of
 - Size relative to the earth
 - Surface and atmospheric features
 - Relative distance from the sun
 - Ability to support life
- d. Explain the motion of objects in the day/night sky in terms of relative position.
- e. Explain that gravity is the force that governs the motion in the solar system.
- f. Describe the characteristics of comets, asteroids, and meteors.

S6E2. Students will understand the effects of the relative positions of the earth, moon and sun.

- a. Demonstrate the phases of the moon by showing the alignment of the earth, moon, and sun.
- b. Explain the alignment of the earth, moon, and sun during solar and lunar eclipses.
- c. Relate the tilt of the earth to the distribution of sunlight throughout the year and its effect on climate.

“GEOLOGY”

S6E5. Students will investigate the scientific view of how the earth’s surface is formed.

- a. Compare and contrast the Earth’s crust, mantle, and core including temperature, density, and composition.
- b. Investigate the contribution of minerals to rock composition.
- c. Classify rocks by their process of formation.
- d. Describe processes that change rocks and the surface of the earth.
- e. Recognize that lithospheric plates constantly move and cause major geological events on the earth’s surface.
- f. Explain the effects of physical processes (plate tectonics, erosion, deposition, volcanic eruption, gravity) on geological features including oceans (composition, currents, and tides).
- g. Describe how fossils show evidence of the changing surface and climate of the Earth.
- h. Describe soil as consisting of weathered rocks and decomposed organic material.
- i. Explain the effects of human activity on the erosion of the earth’s surface.
- j. Describe methods for conserving natural resources such as water, soil, and air.

S6E6. Students will describe various sources of energy and with their uses and conservation.

- a. Explain the role of the sun as the major source of energy and its relationship to wind and water energy.
- b. Identify renewable and nonrenewable resources.