Researching Earth's Cycles

Name

Date

PHOTOSYNTHESIS AND RESPIRATION

Research Links

Your team should thoroughly explore all of the following resources before answering the questions below. Your teacher will help you split the list up among your team members.

1. *Photosynthesis* Infographic
2. *Photosynthesis* Encyclopedic Entry
3. *Illuminating Photosynthesis* Interactive
4. *Definitions in the Field Video: Photosynthesis*
5. *Cellular Respiration* Encyclopedic Entry
6. *Cellular Respiration* Infographic

Brief description of *photosynthesis* (three to four sentences): Sketch of how photosynthesis happens (include labels, arrows, and/or numbered steps to show what happens in the process):

Write an equation for photosynthesis using words:

Other interesting or important notes about photosynthesis from the readings, animation, or video:

Any questions you still have about photosynthesis:

Brief description of *respiration* (three to four sentences)

Sketch of how respiration happens (include labels, arrows, and/or numbered steps to show what happens in the process):

Write an equation for respiration using words:

Other interesting or important notes about respiration from the readings, animation, or video:

Any questions you still have about respiration:

What do you notice about the photosynthesis and respiration word equations? Anything interesting?

What role does energy play in photosynthesis and respiration? Where is energy needed? Where is energy lost? Describe in words and/or illustrate with a labeled diagram to show where energy plays a role in photosynthesis and respiration.

THE ROCK CYCLE

Research Links

Your team should thoroughly explore all of the following resources before answering the questions below. Your teacher will help you split the list up among your team members.

1. *Rock Cycle* Infographic
2. *Rock Cycle* Encyclopedic Entry
3. *Metamorphic Rocks* Encyclopedic Entry
4. *Sedimentary Rocks* Encyclopedic Entry
5. *Igneous Rocks* Encyclopedic Entry

Definition of *sedimentary* (in your own words):
Definition of *igneous* (in your own words):
Definition of *metamorphic* (in your own words):
Definition of *weathering* (in your own words):

Sketch of the rock cycle (include labels and arrows to show what happens in the process):

What role does energy play in the rock cycle? Where is energy needed? Where is energy lost? Describe in words and/or illustrate with a labeled diagram to show where energy plays a role in the rock cycle.

Other interesting or important notes about the rock cycle from the readings or video:

Any questions you still have about the rock cycle:

THE WATER CYCLE

Research Links

Your team should thoroughly explore all of the following resources before answering the questions below. Your teacher will help you split the list up among your team members.

1. *Water Cycle* Encyclopedic Entry
2. *Water Cycle* Infographic
3. *Water Cycle* Interactive

Definition of *precipitation* (in your own words):
Definition of *condensation* (in your own words):
Definition of *evaporation* (in your own words):
Definition of *sublimation* (in your own words):

Sketch of the hydrologic cycle (include labels and arrows to show what happens in the process):

What role does energy play in the hydrologic cycle? Where is energy needed? Where is energy lost? Describe in words and/or illustrate with a labeled diagram to show where energy plays a role in the hydrologic cycle.

Other interesting or important notes about the hydrologic cycle from the readings or video:

Any questions you still have about the hydrologic cycle: