EARTH & SPACE SCIENCE 8 MRS. DUDDLES

Q3 – EARTH SCIENCE

FRIDAY 03/30 – FRIDAY 04/06

WCS District – No School Spring Break Have a safe and happy break!

THURSDAY 03/29/2018 – HALF DAY PM ONLY

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

White Space Question:

What are the two main groups of minerals? What is the process that describes how geologic forces cause rock to change from one type to another? Agenda:

- Discuss and Review Activity 13 Mountain Building guided reading; due today
- Take 5 question quiz on Activity 13 Mountain Building

HW: Complete Activity 14 Volcanoes guided reading

WEDNESDAY 03/28/2018 HALF DAY AM CLASSES ONLY

TUESDAY 03/27/2018

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

White Space Question:

What is the main source of energy for the cycle of molten rock flow in the mantle that causes the movement of Earth's tectonic plates?

- Finish Plate Tectonics Mapping activity; use assigned reading sections
- Work on Activity 13 Mountain Building guided reading; due Thursday 03/29
- 5 question quiz on Activity 13 Mountain Building after Spring Break

MONDAY 03/26/2018

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

White Space Question:

Define tectonic plates.

- Work on Plate Tectonics Mapping activity; use assigned reading sections
- Complete Activity 13 Mountain Building guided reading; due Tuesday 03/27
- 5 question quiz on Activity 13 Mountain Building Tuesday 03/27

FRIDAY 03/23/2018

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

White Space Question:

What is the process that causes hot materials inside the Earth to move toward the surface? Agenda:

- Turn in Unit 3 Minerals & Rocks Take Home Make-up Quiz for grading
- Discuss & review Activity 12 Plate Tectonics guided reading
- Take 5 question quiz on Activity 12 Plate Tectonics concepts; Turn in quiz & Activity 12
 HW: Read assigned section to prepare for Plate Tectonics Mapping activity on Monday
 03/26

THURSDAY 03/22/2018

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

White Space Question:

Rainwater washing away sediment on a hillside is an interaction between which of Earth's spheres?

Agenda:

- Fuel Cell Vehicle Project with MSU Baja Race Team
 - Listen and participate with your Baja Team mentor

HW: Complete Unit 3 Minerals & Rocks Take Home Make-up Quiz & Activity 12 Plate Tectonics guided reading due Friday 03/23

WEDNESDAY 03/21/2018

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

White Space Question:

What is radioactivity? Which two elements must be present in a silicate mineral?

Agenda: Block schedule Science-Math only

- Discuss and Review Activity || Earth's Layers guided reading
- Take 5 question quiz check for understanding on Activity 11 Earth's Layers concepts
- Work on lab activity to Determine Earth's Layered Interior

HW: Complete Unit 3 Minerals & Rocks Take Home Make-up Quiz & Activity 12 Plate Tectonics guided reading due Friday 03/23

TUESDAY 03/20/2018

Objectives:

- Students will identify Earth's compositional and physical layers and describe their properties.
- Students will explain the theory of plate tectonics, describe how tectonic plates move, and identify geologic events that occur due to tectonic plate movement.
- Students will describe how the movement of Earth's tectonic plates causes mountain building.

Agenda:

NWEA Testing for ELA – No Science class today
 HW:Activity II Earth's Layers guided reading due Wednesday 03/21

MONDAY 03/19/2018

Objectives:

- Students will describe the basic structure of minerals and identify different minerals by using their physical properties.
- Students will describe the series of processes and classes of rocks that make up the rock cycle.
- Students will describe the formation and classification of sedimentary, igneous, and metamorphic rocks.

White Space Question:

What do ice core samples in Antarctica reveal about Earth?

Agenda:

- Prep for Fuel Cell Vehicle project with MSU Baja Race Team
- Review Request for Proposal (RFP) to inform Design Brief

HW: Complete Activity 11 Earth's Layers guided reading; 5 question quiz check for understanding Wednesday 03/21

FRIDAY 03/16/2018

Objectives:

- Students will describe the basic structure of minerals and identify different minerals by using their physical properties.
- Students will describe the series of processes and classes of rocks that make up the rock cycle.
- Students will describe the formation and classification of sedimentary, igneous, and metamorphic rocks.

White Space Question:

Which properties describe all matter?

- Discuss Unit 3 Minerals and Rocks Review
- Take Unit 3 Minerals and Rocks Quiz
- When done with quiz, turn in quiz & review. Read for remainder of class period.

THURSDAY 03/15/2018 HALF DAY AM CLASSES ONLY

WEDNESDAY 03/14/2018

Objectives:

- Students will describe the basic structure of minerals and identify different minerals by using their physical properties.
- Students will describe the series of processes and classes of rocks that make up the rock cycle.
- Students will describe the formation and classification of sedimentary, igneous, and metamorphic rocks.

White Space Question:

How can minerals be identified?

- Finish discussion of Activity 9 Minerals
- Discuss and review Activity 10 The Rock Cycle and Three Classes of Rock guided reading
- Work on Unit 3 Minerals and Rocks review; Unit 3 Quiz on Friday 03/16

TUESDAY 03/13/2018

Objectives:

- Students will describe the basic structure of minerals and identify different minerals by using their physical properties.
- Students will describe the series of processes and classes of rocks that make up the rock cycle.
- Students will describe the formation and classification of sedimentary, igneous, and metamorphic rocks.

Agenda:

• NWEA Testing for Math – No Science & ELA classes today HW:The Rock Cycle and Three Classes of Rock guided reading

MONDAY 03/12/2018

Objectives:

- Students will describe the basic structure of minerals and identify different minerals by using their physical properties.
- Students will describe the series of processes and classes of rocks that make up the rock cycle.
- Students will describe the formation and classification of sedimentary, igneous, and metamorphic rocks.

White Space Question:

How are minerals classified? What are the two major groups of minerals? Agenda:

- Take Earth Science Unit 2 Earth's History Quiz 2
- Work on Activity 10 The Rock Cycle and Three Classes of Rock guided reading; due Wednesday 03/14

FRIDAY 03/09/2018 – HALF DAY PM ONLY

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

Where are minerals found?

Agenda:

- Discuss & Review Activity 9 Minerals guided reading
- Check your work; turn in student handout for grading

Notice: Earth Science Unit 2 Earth's History Quiz 2 Monday 03/12

THURSDAY 03/08/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

Define matter.

- Turn in Daily Spark; due today
- Work on Activity 9 Minerals guided reading; due tomorrow Friday 03/09

WEDNESDAY 03/07/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

What can scientists learn by studying ice cores?

Agenda: Science - Math Block Schedule today

- Discuss and Review Unit 2 Earth's History Review
- Take Quiz on Earth Science Unit 2 Earth's History (Activities 5, 6, 7, & 8)
- Complete Daily Spark when done with quiz; due tomorrow Thursday

TUESDAY 03/06/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

Agenda:

• NWEA Testing for ELA – No Science class today

MONDAY 03/05/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

Based on the most current radiometric dating data, about how old is Earth?

Agenda:

- Discuss and Review Activity 8 Geologic Time Scale; due today
- Work on Unit Review due tomorrow

Reminder: Quiz on Earth Science Unit 2 Earth's History (Activities 5, 6, 7, & 8) Tuesday 03/06

FRIDAY 03/02/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

Why can't radiometric dating of Earth rocks be used to determine the age of Earth? Agenda:

- Discuss & Review Radioactive Skittles Lab and Activity 7 Absolute Dating
- Turn in both for grading

HW: Activity 8 Geologic Time Scale guided reading; due Monday 03/05 Quiz on Activities 5, 6, 7, & 8 next Tuesday 03/06

THURSDAY 03/01/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

On what type of organism remains is radiocarbon dating useful?

Agenda: Power Hour Schedule

- Check the following activities to practice solving radioactive decay problems:
 - Nuclear Decay WS practice problems; Use Part 4 Notes from yesterday's class and the Periodic Table of Elements to help you
 - The Dating Worksheet to practice solving radioactive decay and half-life problems
- Finish Radioactive Skittles Lab

WEDNESDAY 02/28/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

How much of a radioactive parent isotope remains after one half-life has passed?

- Complete Radioactive Skittles Lab
 - Read and follow directions in lab packet handout

TUESDAY 02/27/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.
 White Space Question:

Why is the law of superposition most easily applied to undisturbed rock layers?

- Complete the following activities to practice solving radioactive decay problems:
 - Nuclear Decay WS practice problems; Use Part 4 Notes from yesterday's class and the Periodic Table of Elements to help you
 - The Dating Worksheet to practice solving radioactive decay and half-life problems
- Do Case Study "Rewriting the History of Your Food" informational reading practice

MONDAY 02/26/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

What is a geologic column?

- Discuss and review Activity 6 Relative Dating guided reading work; turn in for grading
- Earth Science Part 4 Notes (Radioactive Decay and Absolute Dating)

MONDAY 02/19 – FRIDAY 02/23

WCS District – No School Winter Break Have a safe and happy break!

FRIDAY 02/16/2018 HALF DAY AM CLASSES ONLY

THURSDAY 02/15/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

What is an unconformity?

- Finish Activity 6 Relative Dating guided reading work; due Monday 02/26
- Start Activity 7 Absolute Dating guided reading work; due Monday 02/26
- Turn in Daily Spark (green sheet) due today

WEDNESDAY 02/14/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

Living things in the biosphere interact with other parts of the Earth system to exchange energy. What is the basic source of energy for the biosphere?

Agenda:

- Exponential Functions notes with Mr. Moore
- Start Activity 6 Relative Dating guided reading work

HW: Complete Earth Science Part 3 Notes with notesheet; PowerPoint on classroom webpage

TUESDAY 02/13/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.
 White Space Question:

How old is Earth?

Agenda:

- Discuss and review Activity 5 Geologic Change over Time guided reading; turn in for grading
- Discuss and review Relative Dating lab activity

HW: Don't forget to complete Earth Science Part 3 Notes with notesheet; PowerPoint on classroom webpage

MONDAY 02/12/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

What can scientists learn from fossils?

Agenda:

- Finish Activity 5 Geologic Change over Time guided reading due today
- Complete Relative Dating lab activity; read and follow directions in lab handout
- Clean up!

HW: Complete Earth Science Part 3 Notes with notesheet; PowerPoint on classroom webpage

FRIDAY 02/09/2018

WCS – No school due to inclement weather

THURSDAY 02/08/2018

Objectives:

- Students will explain how Earth materials, such as rock, fossils, and ice, show that Earth has changed over time.
- Students will summarize how scientists measure the relative ages of rock layers and identify gaps in the rock record.
- Students will summarize how scientists measure the absolute age of rock layers including radiometric dating.
- Students will understand how geologists use the geologic time scale to divide Earth's history.

White Space Question:

What are fossils?

- Turn in "Getting in to the Fossil Record" web quest for grading; due today
- Start Activity 5 Geologic Change over Time guided reading
- Preview Relative Dating lab activity for Friday's lab; complete Pre-lab work

WEDNESDAY 02/07/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

What can cause granite to break down into soil over time? Agenda:

- Turn in Activity 4 Soil Formation and Unit I Review for grading
- Take Earth's Surface Unit Test
- Work on "Getting in to the Fossil Record" web quest when done with test; finish for homework. Due Thursday 02/08

TUESDAY 02/06/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Why are the top layers of soil darker in color than the lower layers? Agenda:

- Discuss and review Activity 4 Soil Formation; turn in tomorrow before unit test
- Review Earth Science Unit I Review; Earth's Surface Unit Test this Wednesday 02/07
- Start "Getting in to the Fossil Record" web quest; finish for homework. Due Thursday 02/08

MONDAY 02/05/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Why is soil important?

- Discuss Lab #6 Weathering, Erosion, and Deposition
- Check Daily Spark
- Finish Activity 4 Soil Formation
- Complete Earth Science Unit I Review; Earth's Surface Unit Test this Wednesday 02/07

FRIDAY 02/02/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

What are the main causes of crack growth in rocks over time?

- Take Earth Science Unit I Quiz (Activities I 3)
- Work on Activity 4 Soil Formation when done with quiz; homework if not completed in class

THURSDAY 02/01/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Loess is a very valuable resource. What characteristic of loess makes it so valuable? Agenda:

- Complete Lab #6 Weathering and Erosion
 - Read and follow the directions in lab handout
- Daily Spark due Monday 02/05

Reminder: Quiz on Activities I – 3 tomorrow Friday 02/02

WEDNESDAY 01/31/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

What characteristic of waves cause the most weathering?

Agenda:

- Discuss and review Activity 3 Erosion and Deposition by Water and by Wind, Ice, and Gravity guided reading; due Wednesday 01/31 (25 mins)
- Turn in Case Study handout due today

Reminder: Quiz on Activities I – 3 this Friday 02/02

TUESDAY 01/30/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

What is weathering?

Agenda:

- Finish Activity 3 Erosion and Deposition by Water and by Wind, Ice, and Gravity guided reading; due Wednesday 01/31 (25 mins)
- Work on Case Study handout; you may work with your elbow partner; due Wednesday 01/31 (30 mins)

Reminder: Quiz on Activities I – 3 this Friday 02/02

MONDAY 01/29/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Explain the concept of Earth's energy budget.

Agenda:

- Daily Spark for Week of 01/29
- Discuss and review Activity 2 Weathering guided reading discussion
- Work on Activity 3 Erosion and Deposition by Water and by Wind, Ice, and Gravity guided reading; due Wednesday 01/31

Reminder: Quiz on Activities I – 3 this Friday 02/02

FRIDAY 01/26/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

What are the five main parts that make up the Earth system?

- Turn in "Interaction of Earth's Spheres" activity for grading
- Finish Activity I Earth's Spheres guided reading discussion; turn in Activity I student handout for grading
- Start Activity 2 Weathering guided reading discussion

THURSDAY 01/25/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Oceans, lake, rivers, marshes, groundwater, rain, and the water droplets in clouds are part of the

Agenda:

- Continue Earth Science Unit I Earth's Surface work:
 - Finish Activity 2 Weathering guided reading; due Friday 01/26
 - Work on Interaction of Earth's Spheres activity handout; due Friday 01/26

HW: Complete Earth Science Part 2 Notes

WEDNESDAY 01/24/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Name the layers of the geosphere.

- Discuss and review Activity I Earth's Spheres guided reading
- Continue Earth Science Unit I Earth's Surface:
 - Start Activity 2 Weathering guided reading; due Friday 01/26
 - Work on Interaction of Earth's Spheres activity handout; due Friday 01/26

TUESDAY 01/23/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

Define the term system.

- Read and follow directions to complete Lab 5 "The Ups and Downs of pH" (40 mins)
- Continue Earth Science Unit I Earth's Surface:
 - Complete Activity I Earth's Spheres guided reading; due Wednesday 01/24
 - Work on Interaction of Earth's Spheres activity handout; due Friday 01/26

MONDAY 01/22/2018

Objectives:

- Students will describe Earth's spheres, give examples of their interactions, & explain the flow of energy that makes up Earth's energy budget
- Students will analyze the effects of physical & chemical weathering on Earth's surface
- Students will relate the processes of erosion & deposition by water & other forces
- Students will describe the physical & chemical properties of soil layers & identify the factors that affect soil formation

White Space Question:

State the Law of Conservation of Matter and Energy in your own words.

Agenda:

- Turn in "Calculating a Planet's Gravity" quick lab for grading
- Start Earth Science Unit I Earth's Surface:
 - Complete Activity I Earth's Spheres guided reading
 - Work on Interaction of Earth's Spheres activity handout; due Friday 01/26

HW: Complete Earth Science Part | Notes

FRIDAY 01/19/2018 – HALF DAY PM (RECORDS DAY)

Objectives:

- Students will relate Earth's days, years, and seasons to Earth's movement in space
- Students will describe the effects the sun and the moon have on Earth, including gravitational attraction, moon phases, and eclipses
- Students will explain what tides are and what causes them in Earth's oceans and to describe variations in the tides

White Space Question:

The moon revolves around Earth, about how many Earth days does it take for the moon to travel around Earth?

- Discuss and Review Daily Spark
- Work on "Calculating a Planet's Gravity" quick lab; work on your own for the first half of class then you may compare work with your lab group
- End Q2 Records Day

THURSDAY 01/18/2018

Objectives:

- Students will relate Earth's days, years, and seasons to Earth's movement in space
- Students will describe the effects the sun and the moon have on Earth, including gravitational attraction, moon phases, and eclipses
- Students will explain what tides are and what causes them in Earth's oceans and to describe variations in the tides

White Space Question:

What does a catalyst do?

- Take Science 8 Midterm Exam
- You have the entire I hour and 30 minutes to complete the exam (please use your time wisely)
- Turn in Midterm test packet and answer sheet when complete
- Work on Daily Spark for remainder of class; due tomorrow

WEDNESDAY 01/17/2018

Math Block for Math Midterm Today No ELA or Science class

TUESDAY 01/16/2018

Objectives:

- Students will relate Earth's days, years, and seasons to Earth's movement in space
- Students will describe the effects the sun and the moon have on Earth, including gravitational attraction, moon phases, and eclipses
- Students will explain what tides are and what causes them in Earth's oceans and to describe variations in the tides

White Space Question:

What do astronomers mean by the Big Bang?

- Continue working on review for Midterm Exam (use Topics List student handout to guide you)
- Work on "Calculating a Planet's Gravity" quick lab

MONDAY 01/15/2018

WCS District – No School

MLK Holiday