

## Plan of the Day

00) LATE: If you have NOT already done so, turn in your Classifying Rocks lab & Rocks Foldable (WHITE LATE BIN)

\*\*\*If absent 3/2 or 3/3 see me about makeup\*\*\*

1) I am checking Earth's Water and Atmosphere.

Unit 1, Lessons 1-2

2) Continue working on Unit 1 Lesson 3 AND Unit 3, Lessons 1-3

### ESS2.A: Earth's Materials and Systems

- The planet's systems interact over scales that range from microscopic to global in size, and they operate over fractions of a second to billions of years. These interactions have shaped Earth's history and will determine its future.

### ESS2.C: The Roles of Water in Earth's Surface Processes

- Water's movements—both on the land and underground—cause weathering and erosion, which change the land's surface features and create underground formations.

### ESS2.C: The Roles of Water in Earth's Surface Processes

- Water continually cycles among land, ocean, and atmosphere via transpiration, evaporation, condensation and crystallization, and precipitation, as well as downhill flows on land.
- Global movements of water and its changes in form are propelled by sunlight and gravity.

### ESS2.C: The Roles of Water in Earth's Surface Processes

- Variations in density due to variations in temperature and salinity drive a global pattern of interconnected ocean currents.

### ESS2.D: Weather and Climate

- Weather and climate are influenced by interactions involving sunlight, the ocean, the atmosphere, ice, landforms, and living things. These interactions vary with latitude, altitude, and local and regional geography, all of which can affect oceanic and atmospheric flow patterns.
- The ocean exerts a major influence on weather and climate by absorbing energy from the sun, releasing it over time, and globally redistributing it through ocean currents.

### ESS2.C: The Roles of Water in Earth's Surface Processes

- The complex patterns of the changes and the movement of water in the atmosphere, determined by winds, landforms, and ocean temperatures and currents, are major determinants of local weather patterns.

### ESS2.D: Weather and Climate

- Because these patterns are so complex, weather can only be predicted probabilistically.

Mar 3-2:42 PM

If you made up your lab from an absence, place your:

Classifying Rocks lab AND

Igneous-Sedimentary-Metamorphic

Rocks Foldable in the **TAN MORIN**

**BIN** now.

\*\*\*If your were absent 3/2 (Thursday) or 3/3 (Friday) see me about how to makeup this lab. Failure to do so results in a 0% for the lab\*\*\*

Mar 6-7:03 AM

**\*\*\*Lab makeup instructions if absent 3/2 (Thursday) or 3/3 (Friday). Must be completed within 5 days.\*\*\***

Go to Thursday's/Friday's lesson on weebly:  
0302-032017earthscience24.pdf (linked here)

Use the handout from HAC (you are on your own) or weebly (linked here).

Go to page 9 of the lesson to view the rock samples examined during the lab.

Use those pictures to help you sketch your diagrams (2 diagrams/rock) for the lab.

Describe each rock in words (vocabulary)

Identify major group to which rock belongs using your foldable as a guide.

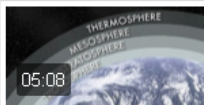
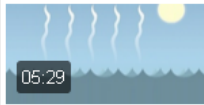
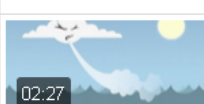
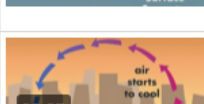
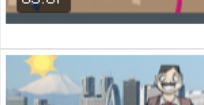
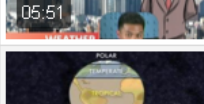
Mar 6-7:03 AM

### Some of the important Weather-Climate vocabulary:

Keyword	Definition
climate	The average weather of a place measured over a long period of time
cloud	A collection of water droplets or ice crystals in the atmosphere
extreme weather	A weather event that is very different from usual weather patterns
front	The boundary between two contrasting masses of air. For example, one air mass might be wet and cold and the other warm and dry
humidity	A measure of how much water vapor is in the atmosphere
precipitation	Water in solid or liquid form that falls from the atmosphere. It includes: rain, hail, sleet and snow
weather	The environmental conditions of a place; made up of many factors including rainfall, wind speed and direction, temperature and humidity
weather forecast	A prediction of the weather conditions for a region over the next day, week or even month

Mar 6-6:40 AM

## Weather-Climate Topics:

	<b>Atmosphere</b> Explores the layers of the atmosphere and their ...
	<b>Oceans: Temperature and Climate Regulation</b> Discusses ocean currents' role in regulating temperatures ...
	<b>Oceans: Surface Currents and Deep Currents</b> Compares surface currents and deep currents. Surface ...
	<b>Convection in the Atmosphere and Oceans</b> Addresses how both wind and ocean currents contribute to ...
	<b>Weather and Climate: Weather</b> Differentiates between weather and climate. Weather is a ...
	<b>Weather and Climate: Climate</b> Defines climate as an area's average weather conditions, ...

**REMINDER:** These topics were covered in the video. The atmosphere and ocean currents combine to impact Earth's weather and climate:

The Earth is warmed in part by convection heat produced by solar energy, which is distributed through wind and ocean currents.

Cold ocean currents spread cooler temperatures to warm areas, while warm ocean currents spread warmer temperatures to cool areas, thereby regulating coastal climates.

Mar 17-5:29 AM

## I will now check Unit 1 Earth's Water and Atmosphere :

**Lesson 1 Water and Its Properties, pages 4-12.**  
**Answer Questions 1 - 19 (omit 13).**

**Lesson 2 The Water Cycle, pages 14 - 24.**  
**Answer Questions 1 - 22 (omit 14 & 18).**

**Read S.T.E.M. pages 26-27 Answer questions 1 & 2.**

**CONTINUE WORK on Lesson 3 Surface Water and Groundwater, pages 30 - 40.**

**Answer Questions 1 - 21 (omit 13, 16 & 17).**

Mar 17-6:49 AM

## When you have completed Unit 1:

### READ Unit 3, Earth's Atmosphere:

Lesson 1 The Atmosphere, pages 104-112. Answer Questions 1 - 16 (omit 8).

Lesson 2 Energy Transfer, pages 114 - 126.

Answer Questions 1 - 22 (omit 13).

Read S.T.E.M. pages 128-129 Answer questions 1 & 2.

Lesson 3 Wind in the Atmosphere, pages 132 - 142.

Answer Questions 1 - 22 (omit 9, 14 & 15).



Mar 6-12:39 PM

## Already completed Unit 3?

### READ Unit 2, Oceanography:

Lesson 1 Earth's Oceans and the Ocean Floor, pages 52-62. Answer Questions 1 - 19 (omit 14).

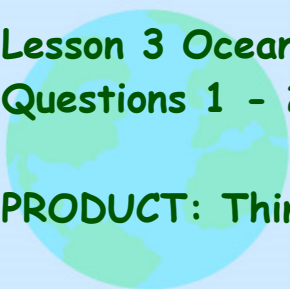
EXTRA CREDIT: Question 14 on a separate paper.

Lesson 2 Ocean Waves, pages 66 - 76.

Answer Questions 1 - 22 (omit 13 & 14).

Lesson 3 Ocean Currents, pages 80 - 92. Answer Questions 1 - 26 (omit 17 & 18).

PRODUCT: Think Outside the Book (page 96) next page



Mar 10-6:54 AM

**PRODUCT ASSIGNMENT as MODIFIED below:  
Think Outside the Book (page 96)**

**Think Outside the Book**

**2 Synthesize** Complete the circled activity ; to help synthesize what you have learned in this unit.

- ~~Using what you learned in lessons 1 and 2, make a flipbook that shows how an earthquake along a fault near a subducting plate might affect the ocean water above it.~~
- Using what you learned in lessons 1 and 3, make a poster presentation describing how the temperature of ocean water is important to distributing energy as heat around the global ocean.



**Due date to be determined**

Mar 10-8:54 AM

## Unit 2 Test- Dynamic Earth:

**March 20th (A-day)**

**March 21st (B-day)**



Mar 10-7:05 AM

## Attachments

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SD\_Earth7\_2Mb.mp4