

PLAN of the DAY:

1) CHECK Unit 4, Lessons 1-3.
(Last formally assigned readings from text.)

2) REMOVE page 175/176 (Unit 4, Lesson 2 Review) AND 193/194 (Unit 4, Lesson 3 Review from your work book. You will complete EACH for a PRODUCT GRADE.

3) HIGHLY RECOMMENDED: Unit 4, Lessons 4-7 (especially Lesson 7, Climate Change).

4) Extra Credit with restrictions: Lesson 6, Climate, and Lesson 7, Climate Change.

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 29-3:15 PM

CHECKING TODAY:**Unit 4: Weather and Climate:**

Lesson 1 Elements of Weather. Read pages 154-162. Answer questions 1-21 (omit 12).

Lesson 2 Clouds and Cloud Formation Read pages 164-174. Answer questions 1-23 (omit 12, 17 & 18).

STEM: Evaluating Technological Systems pages 176-177. Answers questions 1 & 2.

Lesson 3 What Influences Weather Read pages 180-192. Answer questions 1-25 ALL

Mar 29-3:15 PM

PRINT your FIRST and LAST name on the LEFT HAND MARGIN before you begin.

When completed, place in the TAN MORIN BIN

First Last

Lesson Review

Lesson 2

Vocabulary

Fill in the blank with the term that best completes the following sentences.

- 1 A _____ cloud is thin, wispy, and made of ice crystals.
- 2 The temperature at which water vapor condenses is the _____.
- 3 _____ is condensed water vapor that forms very close to Earth's surface.

Key Concepts

- 4 **Compare** What are two differences between stratus clouds and cirrus clouds?

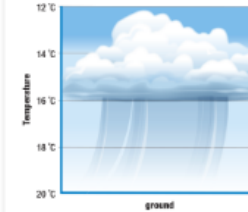
- 5 **List** What are the four classes of clouds based on altitude?

- 6 **Describe** What are three ways in which clouds affect climate?

- 7 **Explain** What part do tiny, solid particles in the atmosphere play in cloud formation?

Critical Thinking

Use this diagram to answer the following questions.



- 8 **Analyze** What is the dew-point temperature at which cloud formation began?

- 9 **Explain** Why doesn't cloud formation take place until the dew-point temperature is reached?

- 10 **Apply** What kind of clouds would you expect to form at the leading edge of a cold front, where warm air is gradually being pushed above cold air?

Apr 24-6:36 AM

PRINT your FIRST and LAST name on the LEFT HAND MARGIN before you begin.

When completed, place in the TAN MORIN BIN

First Last

Lesson Review

Lesson 3

Vocabulary

For each pair of terms, explain how the meanings of the terms differ.

- 1 *front and air mass*
- 2 *high-pressure system and low-pressure system*
- 3 *jet streams and global wind belts*

Key Concepts

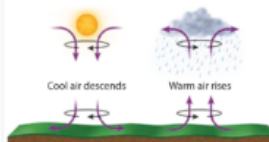
- 4 **Apply** If the weather becomes stormy for a short time and then becomes colder, which type of front has most likely passed?

- 5 **Describe** Explain how an ocean current can affect the temperature and the amount of moisture of the air mass above the current and above nearby coastlines.

- 6 **Synthesize** How does the water cycle affect weather?

Critical Thinking

Use the diagram below to answer the following question.



- 7 **Interpret** How does the movement of air affect the type of weather that forms from high-pressure and low-pressure systems?

- 8 **Explain** How does the polar jet stream affect temperature and precipitation in North America?

- 9 **Describe** Explain how changes in weather are caused by the interaction of air masses.

Apr 24-6:36 AM

EXTRA CREDIT OPPORTUNITY with RESTRICTIONS:

Complete Unit 4, Lesson 6, CLIMATE, read pages 225-236, and answer questions 1-29 (omit 8) for 10 points.

Complete Unit 4, Lesson 7, CLIMATE CHANGE, read pages 238-252 and answer questions 1-29 (omit 23) for 10 points.

RESTRICTIONS:

You may ONLY receive EXTRA CREDIT if you have completed ALL of the work leading UP TO Lessons 6 & 7 FOR CREDIT Unit 4, Lessons 1, 2 AND 3 MUST BE COMPLETED ON TIME!

DUE DATES:**May 1st (B-Day)****May 2nd (A-DAY)**

Apr 20-6:27 AM

WHILE YOU COMPLETE the Unit 4, Lesson 2 & Lesson 3 Lesson Reviews for a **PRODUCT GRADE**, be sure to have your workbook ready for me to check the assigned readings in Unit 4: Weather and Climate:

Lesson 1 Elements of Weather. Read pages 154-162. Answer questions 1-21 (omit 12).

Lesson 2 Clouds and Cloud Formation Read pages 164-174. Answer questions 1-23 (omit 12, 17 & 18).

STEM: Evaluating Technological Systems pages 176-177. Answers questions 1 & 2.

Lesson 3 What Influences Weather Read pages 180-192. Answer questions 1-25 ALL

Mar 29-3:15 PM

REMINDER: DURING 4th QUARTER

I NO LONGER accept **LATE assignments**
UNLESS due to reasonable absence or as noted
on the following page.

All assignments **MUST BE ON TIME** or **EARLY**.

NO EXCEPTIONS!

Mar 29-3:15 PM

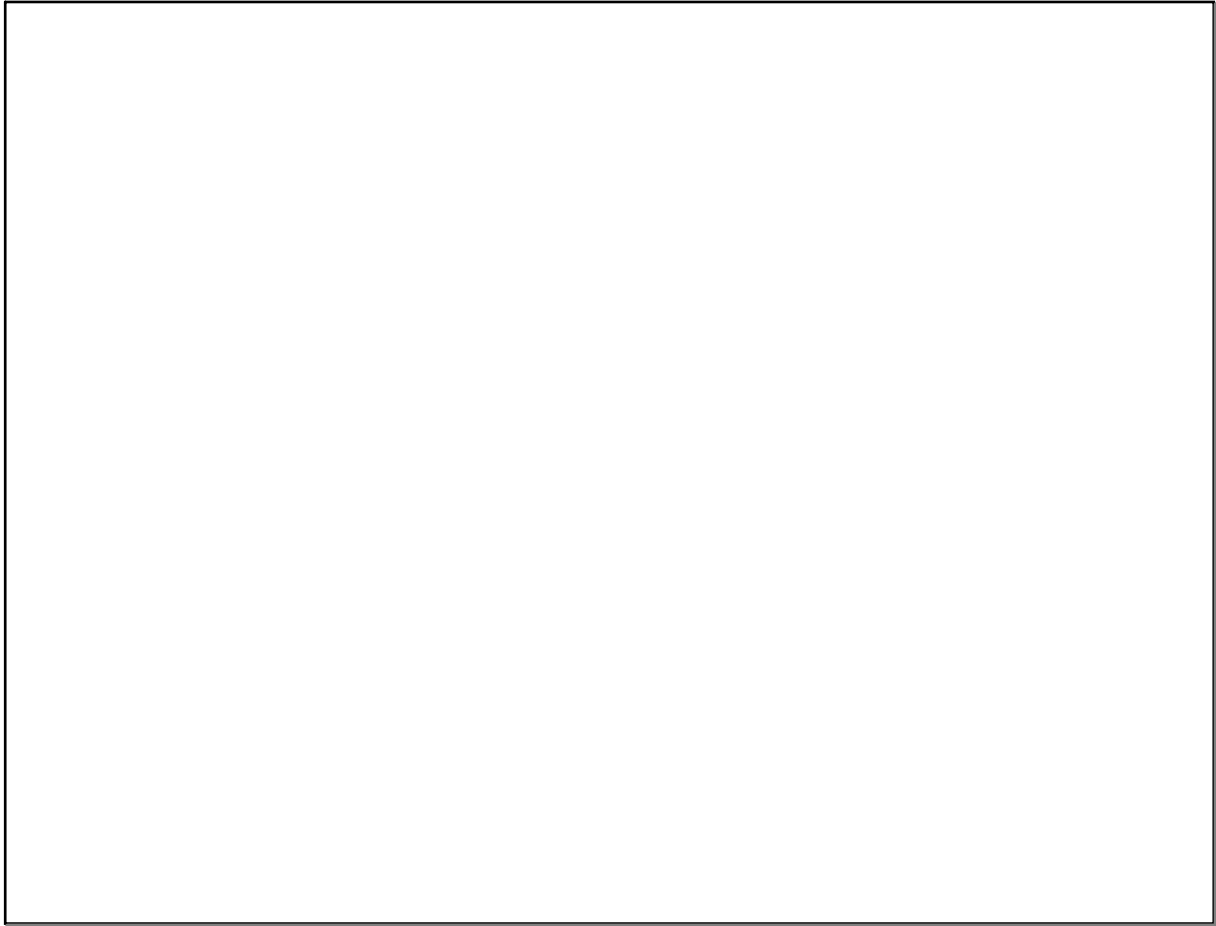
The first set of assignments below were started 3rd quarter. If you scored less than the total point value (circled), you may complete to update and "fix" your score by May 1st (B-day) & May 2nd (A-day).

04/03 PROC Pts: 19.00 Wgt: 1.00 READ Unit 2, Oceanography: Lesson 1 Earth's Oceans and the Ocean Floor, pages 52-62. Answer Questions 1 - 19 (omit 14).	04/03 PROC Pts: 22.00 Wgt: 1.00 Unit 3, Earth's Atmosphere: Lesson 3 Wind in the Atmosphere, pages 132 - 142. Answer Questions 1 - 22 (omit 9, 14 & 15).	04/05 PROC Pts: 22.00 Wgt: 1.00 READ Unit 2, Oceanography: Lesson 2 Ocean Waves, pages 66 - 76. Answer Questions 1 - 22 (omit 13 & 14).	04/05 PROC Pts: 26.00 Wgt: 1.00 READ Unit 2, Oceanography: Lesson 3 Ocean Currents, pages 80 - 92. Answer Questions 1 - 26 (omit 17 & 18).
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The second set of assignments below **MUST BE COMPLETED ON TIME** for full credit.

04/19 PROD Pts: 30.00 Wgt: 1.00 Unit 2: Global Transfer of Energy through Global Oceans Poster Presentation (Page 96, 2nd checkbox)	04/25 PROC Pts: 21.00 Wgt: 1.00 Unit 4: Weather and Climate: Lesson 1 Elements of Weather. Read pages 154-162. Answer questions 1-21 (omit 12).	04/25 PROC Pts: 23.00 Wgt: 1.00 Unit 4: Weather and Climate: Lesson 2 Clouds and Cloud Formation Read pages 164-174. Answer questions 1-23 (omit 12, 17 & 18).	04/25 PROC Pts: 2.00 Wgt: 1.00 Unit 4: Weather and Climate: STEM - Evaluating Technological Systems pages 176-177. Answers questions 1 & 2.	04/25 PROC Pts: 25.00 Wgt: 1.00 Unit 4: Weather and Climate: Lesson 3 What Influences Weather Read pages 180-192. Answer questions 1-25 ALL	05/02 PROC Pts: 0.00 Wgt: 1.00 EXTRA CREDIT: Complete Unit 4, Lesson 6, CLIMATE, read pages 225-236, and answer questions 1-29 (omit 8)	05/02 PROC Pts: 0.00 Wgt: 1.00 EXTRA CREDIT: Complete Unit 4, Lesson 7, CLIMATE CHANGE, read pages 238-252 and answer questions 1-29 (omit 23)
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Apr 20-2:21 PM



Apr 21-7:51 AM

Attachments



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