

**Unit 2**  
**Lesson 2**  
**Guided Notes**

Name \_\_\_\_\_ # \_\_\_\_\_ Class \_\_\_\_\_

**Lesson 2-How Do Earth's Systems Produce Weather and Climate?**

Section 1: Earth's Systems Interact

- Earth's four systems \_\_\_\_\_ with each other.
  - All of the \_\_\_\_\_ and \_\_\_\_\_ you experience are produced by interactions of Earth's systems
  - Define weather:  
\_\_\_\_\_  
\_\_\_\_\_
  - Define climate  
\_\_\_\_\_  
\_\_\_\_\_

Section 2: Air Pressure and Temperature

- Air pressure, or how much air \_\_\_\_\_ on any surface, affects the \_\_\_\_\_.
- \_\_\_\_\_ also affects the weather.
  - Earth's surface, its \_\_\_\_\_ and \_\_\_\_\_, affects the temperature of the air.
  - The amount of change in air temperature affects an area's \_\_\_\_\_.
  - Define air mass:  
\_\_\_\_\_  
\_\_\_\_\_

Section 3: Clouds and Precipitation

- Clouds form when Earth's \_\_\_\_\_ interacts with the \_\_\_\_\_.

- The kinds of clouds in the sky can tell you what the \_\_\_\_\_ will be.
  - \_\_\_\_\_ clouds are feathery clouds made of \_\_\_\_\_ crystals
  - \_\_\_\_\_ clouds are fluffy and white, and form lower down.
  - \_\_\_\_\_ clouds are flat, gray, and layered. They're the lowest clouds.
  - \_\_\_\_\_ clouds are storm clouds.
- \_\_\_\_\_ is water that lands on the Earth's \_\_\_\_\_.

Section 4: Ocean Currents

- The water in Earth's ocean is constantly \_\_\_\_\_.
- \_\_\_\_\_ currents result from interactions between the hydrosphere and the \_\_\_\_\_.
- \_\_\_\_\_ water currents are caused partly by temperature differences

Section 5: Prevailing Winds

- Define Prevailing Winds:

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