

Unit 2 Test Review Guide

Seasons

- **Rotation and revolution:** Know the difference and the effect each has on the earth.
- **Tilt of the earth:** Angle, effect on the seasons
 - How do rotation, revolution and tilt combine to affect the earth?
- Effect of **cloud cover** on day/night temperatures
- **Solstice and equinox...**what happens during each, when does each happen
- **Reversal of seasons by hemisphere...**know which seasons happen in each hemisphere at the same time
- **Tropical regions:** what typically happens in this region in terms of seasons, length of day, intensity of heat
- **Greenhouse effect:** Be able to explain it, what effect it has on the earth
- **Altitude and latitude:** How does each one effect temperatures?

Winds

- General definition
- **Prevailing winds:**
 - General definition
 - Be able to describe how the **pressure belts** cause them
 - How many pressure belts are there? How often do they occur (what latitudes)? Which ones are high/low pressures?
 - What is the **Coriolis Effect**? What does it affect the prevailing winds?
 - What are the names of the prevailing winds?
- How does a **sea breeze** form?

Rain

- General definition of **precipitation**, explanation of how it forms.
- What are the 3 types of rainfall?
 - What causes **relief** rainfall? Be able to explain it in terms of **windward, leeward and rain shadow** terms
 - What causes **frontal** rainfall? How do warm/cold fronts work together to make it happen?
 - What causes **convective** rainfall?
- How do prevailing winds affect precipitation levels?
- How do prevailing winds affect temperatures? (In general AND depending on the seasons)

Ocean Currents

- General definition
- What causes them to happen?

- What are the **2 types** of ocean currents? How are they different in their movement?
 - Be able to identify examples of each type.
- How do ocean currents affect air temperatures and precipitation levels around the world?

Continentality

- What is **temperature range**? How does a large or small temperature range relate to the climate for a location?
- What happens to the temperature range as you move further from the ocean?
- What is a **continental climate**? What are the main characteristics?
- What is a **maritime climate**? What are the main characteristics?
- What does a **climate graph** measure? How are these things shown on the graph?
- What is a **monsoon**? Where do they happen? How do the winds cause the wet and dry seasons?
- How does **elevation** affect air temperature? What is the general rule?

Climate Zones

- What is the general description of a **tropical climate**? What causes it?
 - What is the difference between a **tropical wet** climate and a **tropical wet and dry** climate?
- What is the general description of an **arid climate**? What causes it?
 - What is the difference between an **arid desert** climate and a **semi-arid steppe** climate? (HINT: precipitation levels)
- What are some general characteristics of **temperate mild and temperate cold climates**?
- What are some general characteristics of **polar climates**?
 - What is the difference between a **tundra and ice cap climate**?
- What are some general characteristics of **highland climates**?