Integrated Science

Grade 8E and 8E2 **28/10/2021**

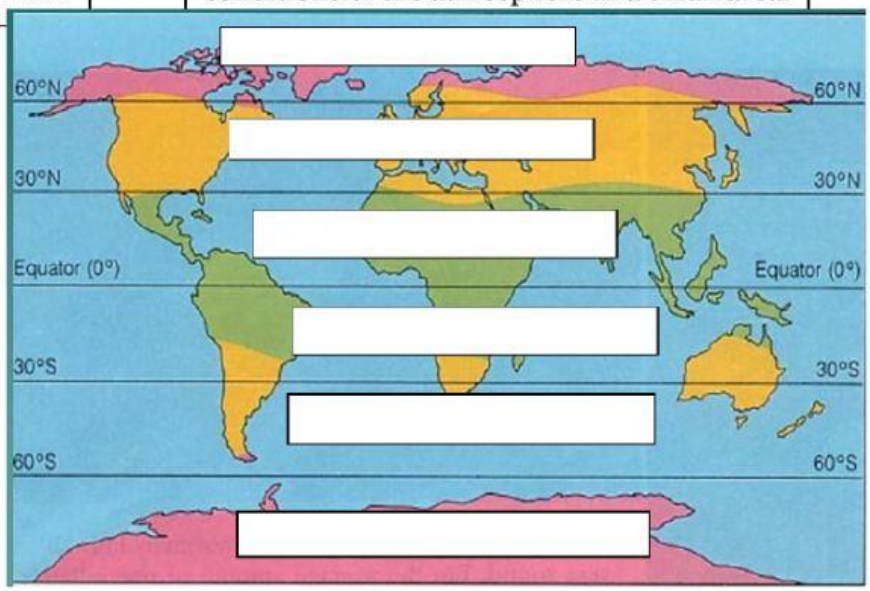
1. Drag and drop the best explanation in the box below the question.

a. What is weather? **b.** What is climate?

The average weather condition of a **large region** over an **extended** period.

The **short-term** (hourly or daily) conditions of the atmosphere in a small area.

2. Drag and drop the correct climatic zones on to the world map to the right.



Northern Polar Zone

Southern Polar Zone

Northern Temperate Zone

Southern Temperate Zone

Tropical

Tropical

Select the best answers:

3. What is weather?
   - ***a)*** Weather is what is happening in the atmosphere in a certain place certain time.
   - ***b)*** Weather is the atmosphere.
   - ***c)*** Weather is the clouds.
   - ***d)*** Weather is the wind.
4. What is climate?
   - ***a)*** Climate is the average weather conditions experienced in a wide region over long periods.
   - ***b)*** Climate is the weather in a place.
   - ***c)*** Climate is the long range weather forecast for a country or city.
   - ***d)*** Climate is the icy regions of the Earth.

Word bank: Anemometer; Wind vane; Rain Gauge; Thermometer

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5. Name the weather instruments shown in the pictures and explain their uses.

a



b.



c.



d.



6. Write the name of the appropriate instrument in the box beside the description.

a) An instrument that measures wind speed.

b) An instrument that measures the temperature of the air.

c) An instrument that shows the direction of the wind.

d) An instrument that measures the amount of rain (or snow) that fell.

7. Which of the following conditions can change daily?

a) Weather
b) Climate
c) Polar Zones
d) Both climate and weather

8. Which climatic zone gets the **most** sunlight?

a) Polar Zone
b) Temperature Zone
c) Tropical Zone
d) Mountainous Zone

9. Which climatic zone gets the **least direct** sunlight?

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a) Polar Zone

b) Temperature Zone

c) Tropical Zone

d) Mountainous Zone

10. Which of the following is the **opposite** of a polar climate?

a) desert climate

b) highland climate

c) temperate climate

d) tropical climate

11. All of the following are climatic zones except which one?

a) Polar zone

b) Rainforest zone

c) Tropical zone

d) Temperate zone

12. The tropical zones is . . .

a. Near the North and South Poles;

b. Near the equator;

c. Have four (4) distinct seasons;

13.. Which of the following devices can be used for measuring the speed of the wind?

a. A wind vane

b. A barometer

c. An anemometer

14. **What is the greenhouse effect?**

a. Certain gases in the atmosphere trap heat and warm the Earth

b. Life on Earth 'exhales' gas that warms up the atmosphere

c. The tilt of the Earth changes the amount of solar energy the Earth receives

d. The Sun is putting out more radiant energy over time

15. Which of the following is one major way that humans pollute the air?

a. by using fertilizers on crops

b. by releasing carbon dioxide from plants

c. by burning fossil fuels to produce energy

d. by destroying producers in colder climates

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