

OGUN DIGICLASS

CLASS: SECONDARY

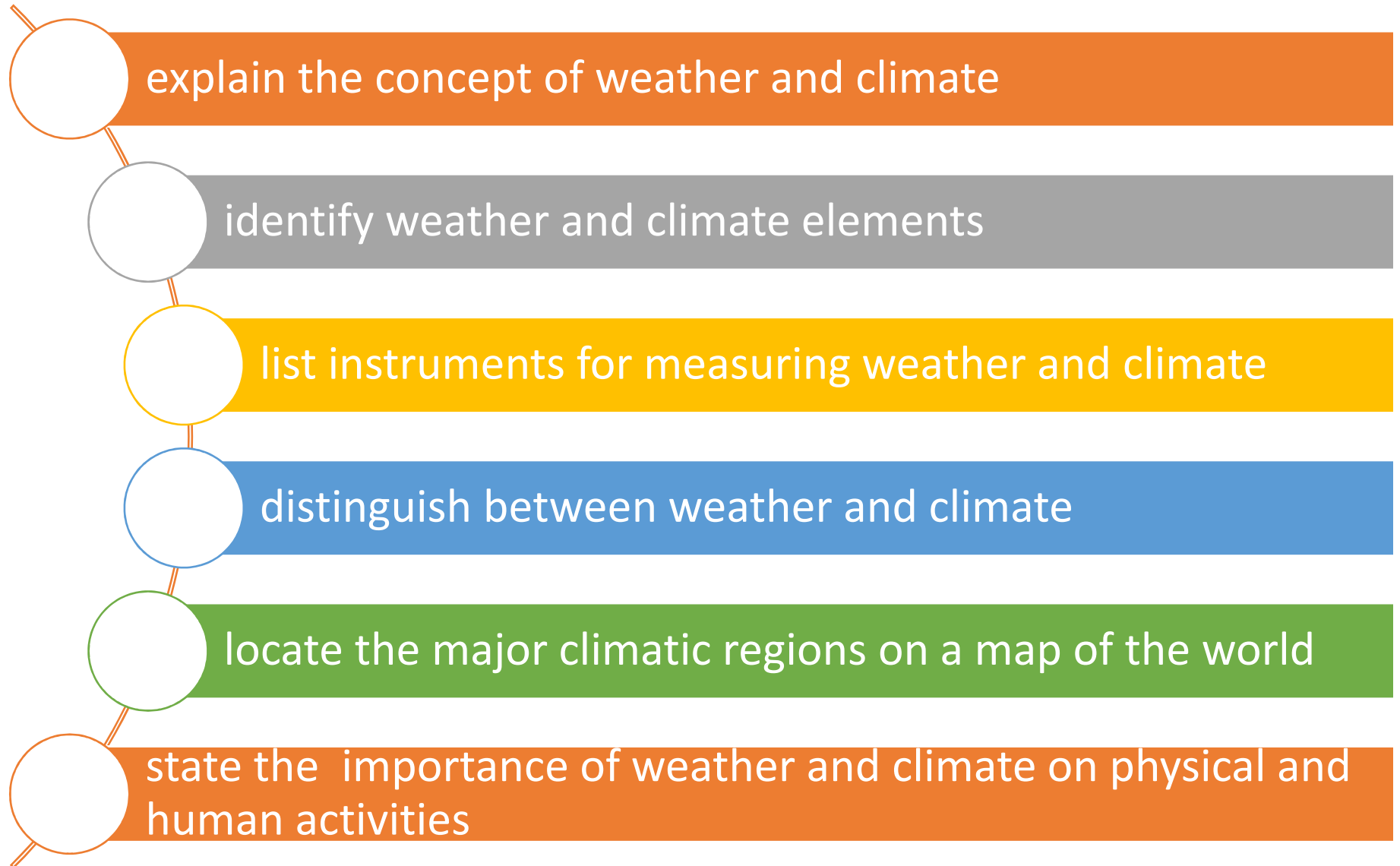
SUBJECT: GEOGRAPHY

TOPIC: WEATHER AND CLIMATE



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Learning Objectives

- 
- explain the concept of weather and climate
 - identify weather and climate elements
 - list instruments for measuring weather and climate
 - distinguish between weather and climate
 - locate the major climatic regions on a map of the world
 - state the importance of weather and climate on physical and human activities

Some more facts



GEOfacts

Highest average annual rainfall

Mawsynram,
Assam, India 11 783 millimetres



Lowest average annual rainfall

Arica, Chile
0.8 millimetres



Highest recorded temperature

Azizia, Libya
58° Celsius



Lowest recorded temperature

Vostok Station,
Antarctica
-89.2° Celsius



Most sunny days

St Petersburg, Florida, recorded 768 consecutive sunny days (1967-69).



Most rainy days

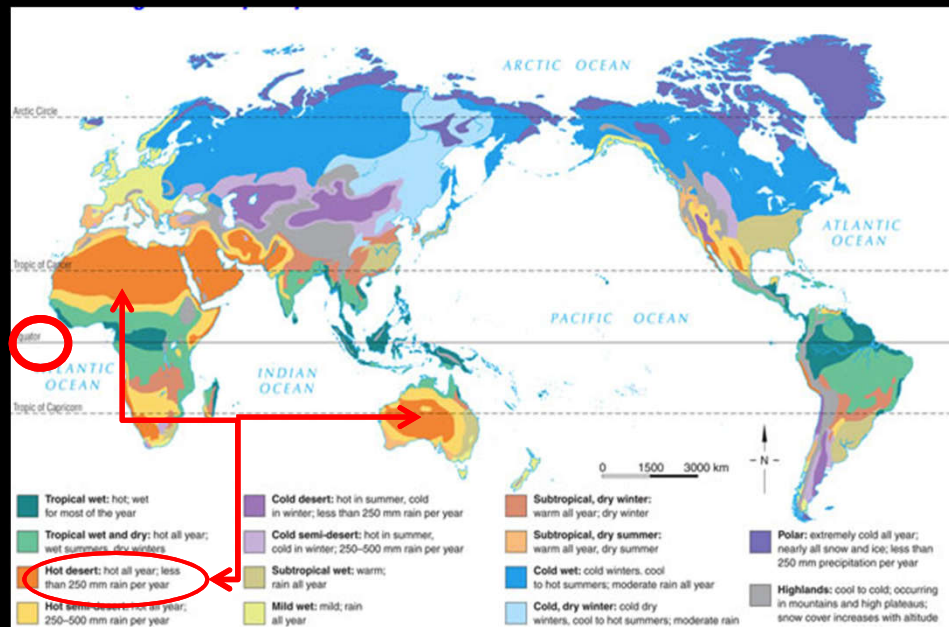
Mount Waialeale, Hawaii,
has up to 350 rainy days
every year.



Climate vs Weather

Climate is the long term variation in the atmosphere for a given area.

Weather is the short term variation of the atmosphere for a given area.



Elements of Weather & Climate with Instruments Used in Measuring Them



TEMPERATURE -
THERMOMETER



RAINFALL -
RAINGUAGE



WIND DIRECTION
WIND VANE



WIND SPEED -
ANEMOMETER



HUMIDITY -
HYGROMETER



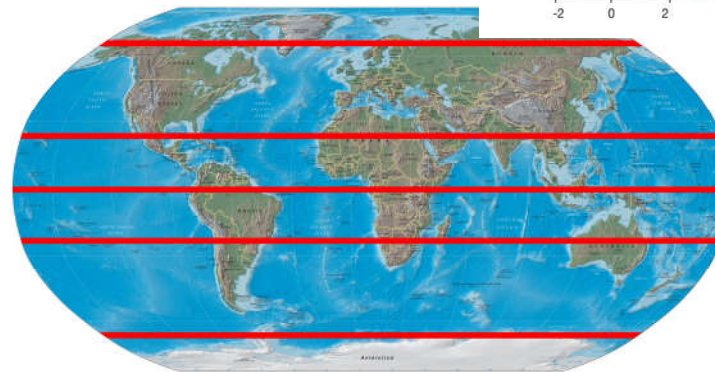
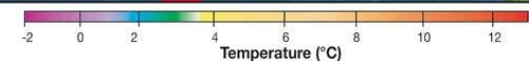
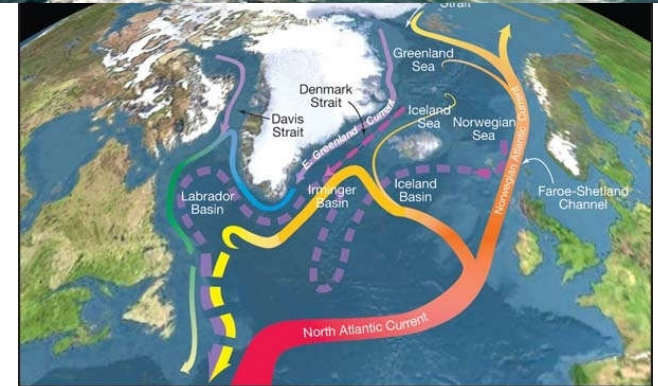
PRESSURE -
BAROMETER



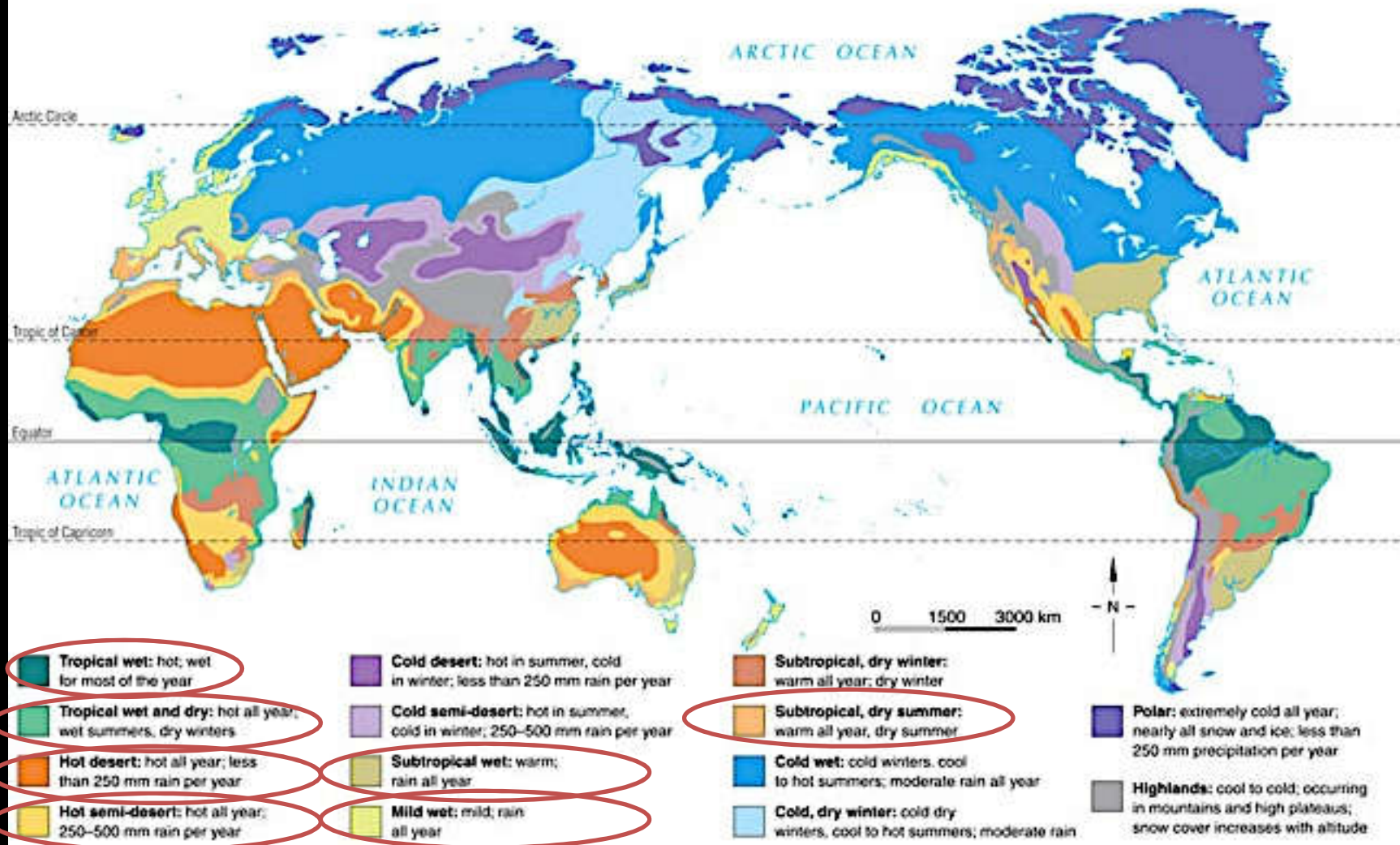
SUNSHINE -
CAMPBELL-
STOKES

Factors Affecting Climate

- Latitude
- Altitude
- Distance from Sea
- Ocean Current
- Slope and Aspect
- Natural Vegetation



Climate vs Weather



Climate Zones; Where are they?

The further away from the equator, the more varied the climate

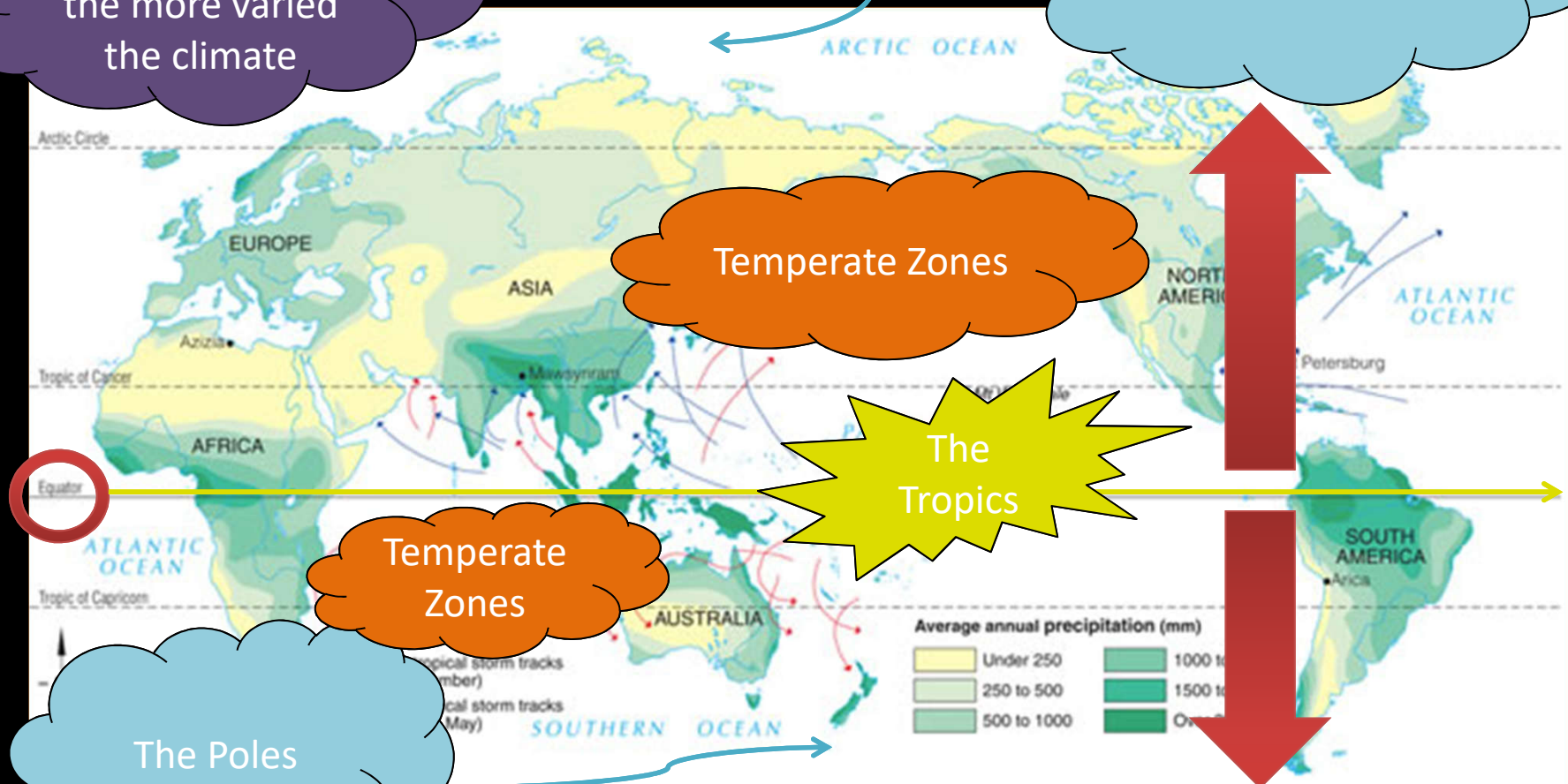
The Poles

Temperate Zones

The Tropics

Temperate Zones

The Poles

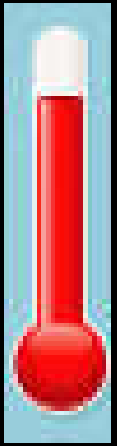
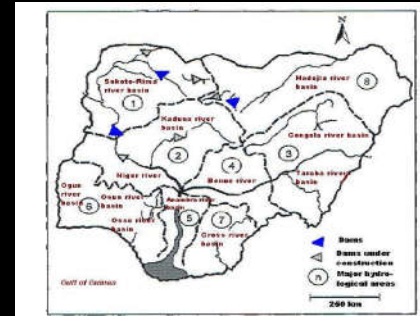


Climatic Zones

- The Tropics: Warm and receive plenty of rain. Some examples include Queensland, Thailand and Bali!
- The Poles: Cold and dry. The obvious examples include Antarctica and the Arctic Circle
- Temperate Zones: The areas that lie between them. The Savanna is an example.



The place is.....



Seasons in Nigeria

Wet

Dry

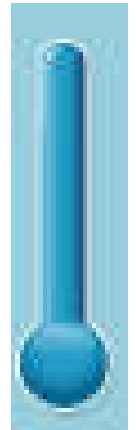


The Season is



Winter

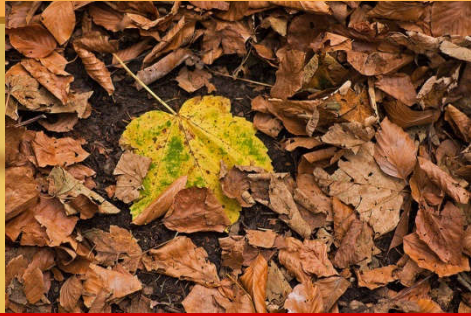
Summer



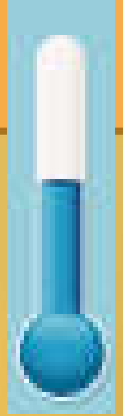
The weather is mostly



The Season is.....



Spring
Autumn



The weather is mostly

The Season is



Spring

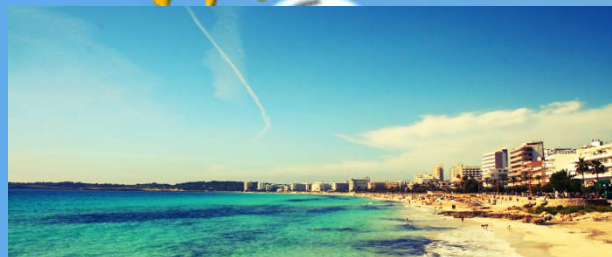
Summer



The weather is mostly

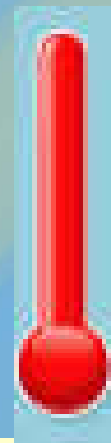


The Season is.....



Summer

Winter



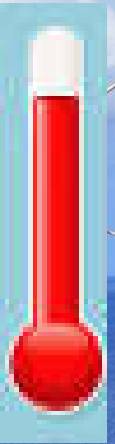
The weather is mostly

The place is.....

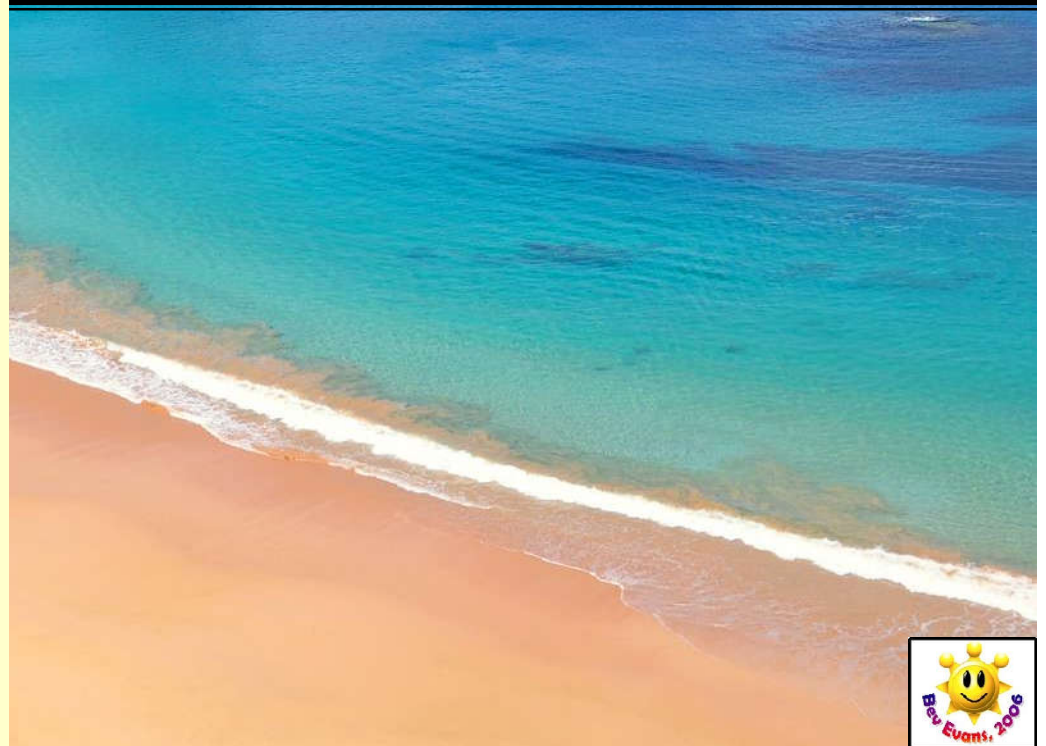
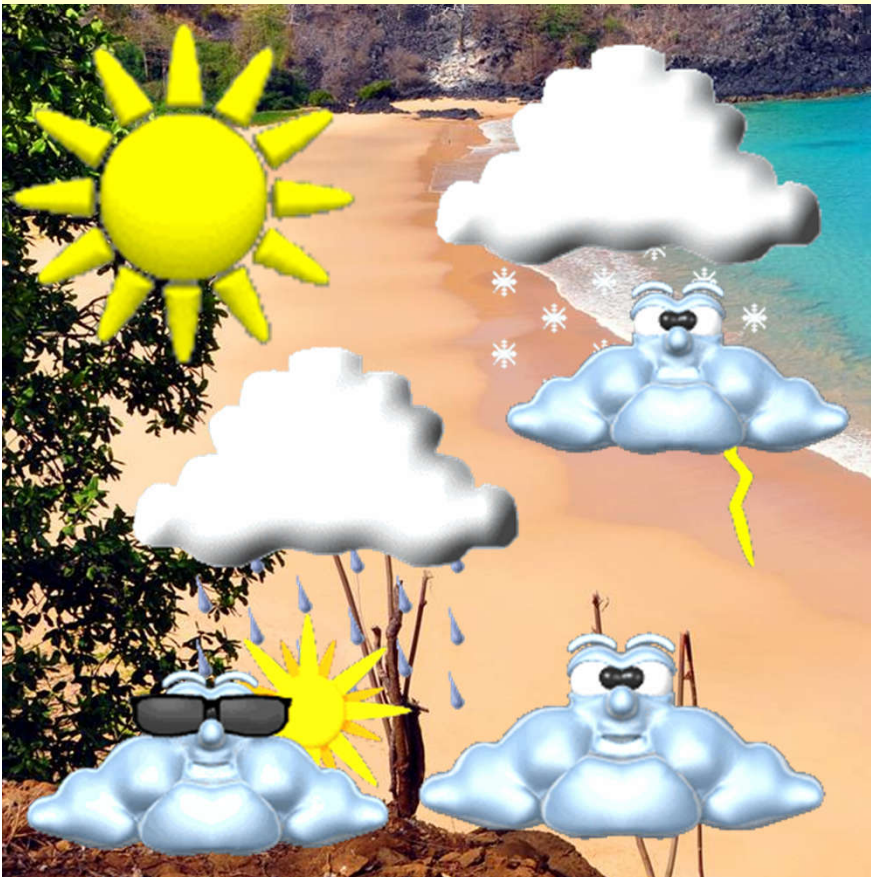


Japan

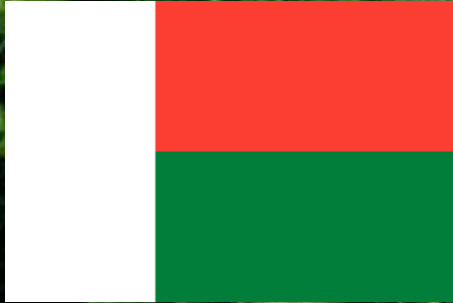
Brazil



The weather is mostly

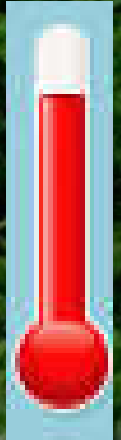


The place is



Madagascar

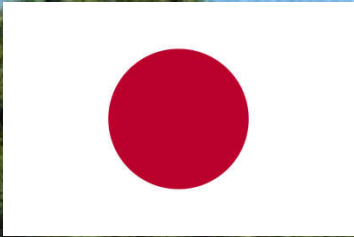
Brazil



The weather is mostly



The place is



Japan

Alaska



The weather is mostly

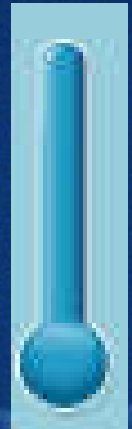


The place is



Antarctica

Alaska



The weather is mostly

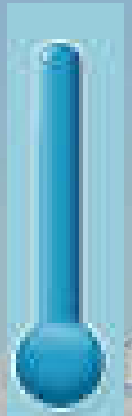


The place is



Alaska

Antarctica



The weather is mostly





Assignment

- Differentiate between Weather and Climate
- What are the instruments used in measuring the following elements
 - Temperature
 - Rainfall
 - Pressure
 - Wind
 - Humidity