

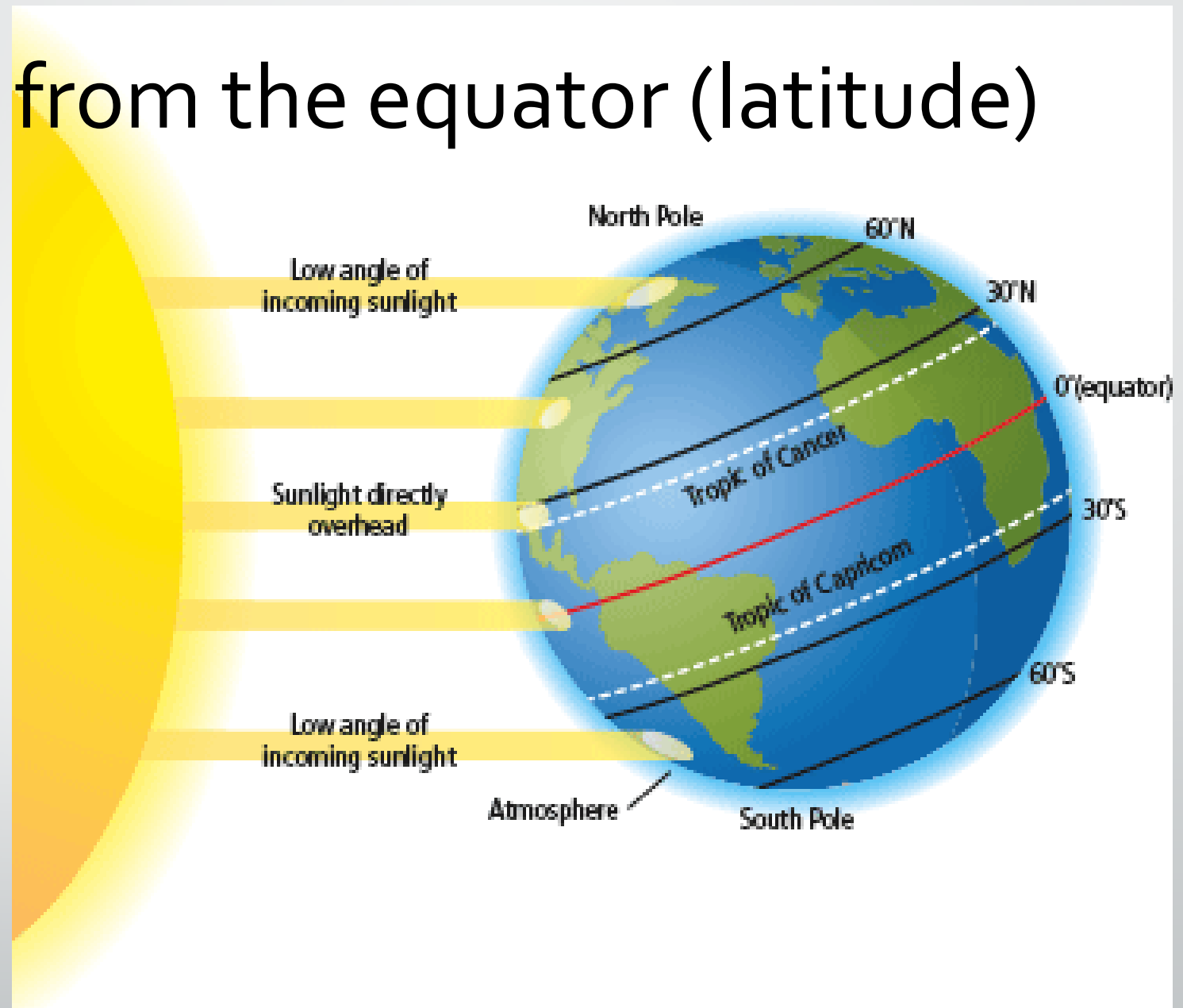


Welcome to
GEOGRAPHY CLASS!!!

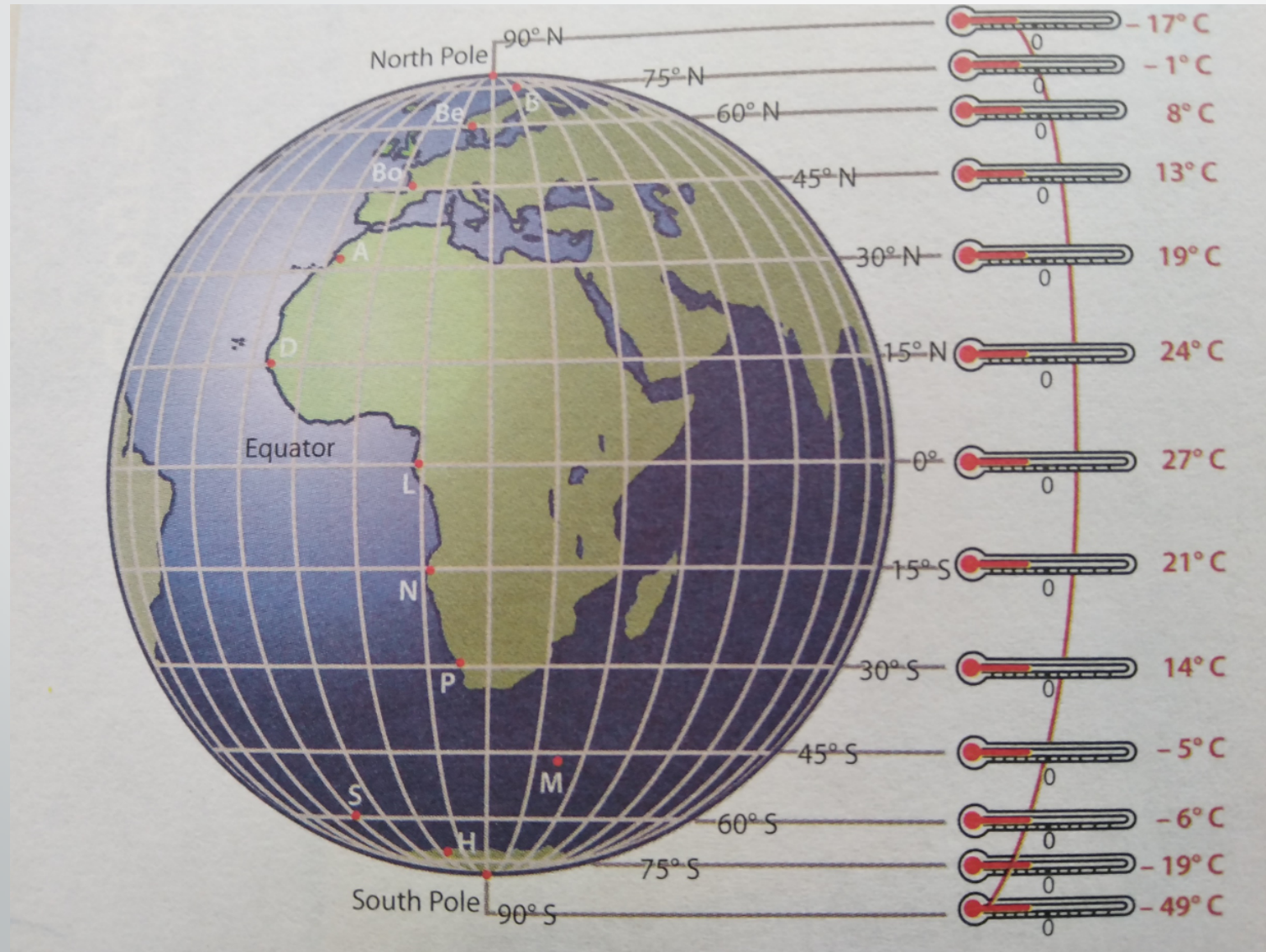
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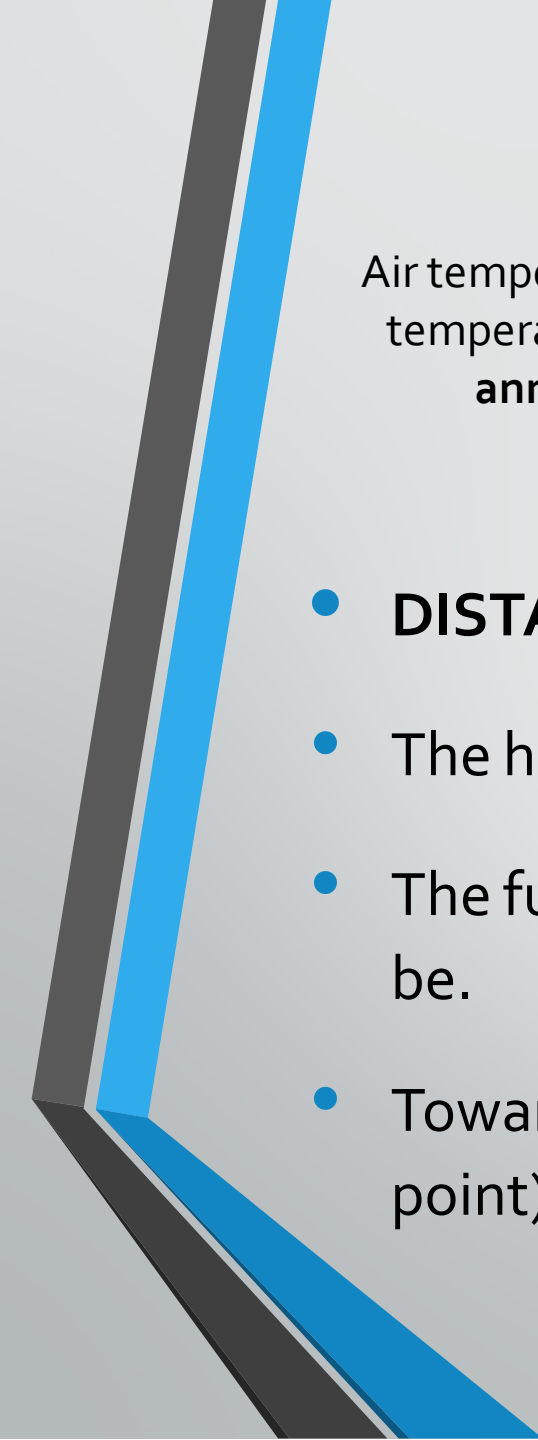
Grade 8

Distance from the equator (latitude)



Factors that influence temperature and rainfall:



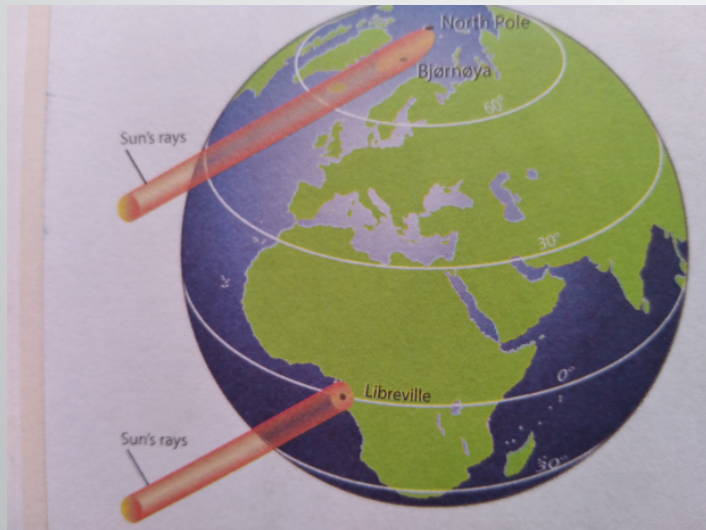


Air temperature tells how hot or cold a place is. The temperature at any place changes all the time. Air temperature also varies from place to place. One measure of the temperature of a place is its **mean annual temperature**. There are **5 factors** that strongly influence temperature and rainfall.

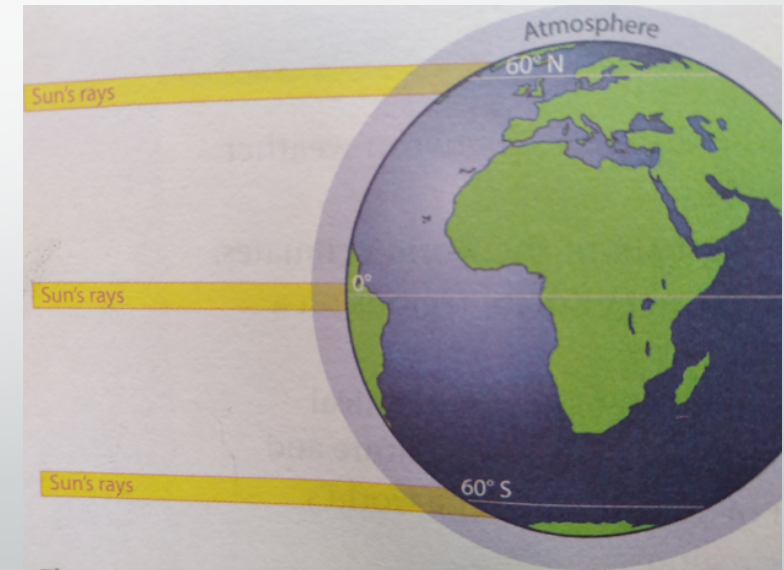
- **DISTANCE FROM THE EQUATOR (LATITUDE):**
- The hottest places are near the equator (0° latitude)
- The further a place is from the equator, the lower its temperature is likely to be.
- Towards the poles, mean annual temperatures drop to below 0°c (freezing point).

Two reasons that temperature decreases towards the poles:

Solar heat is more concentrated at the equator than near the poles.



More solar heat is absorbed as the sun's rays pass through the atmosphere near the poles.





HOËRSKOOL ELSPARK

2020



SOCIAL SCIENCES: GEOGRAPHY

Activity 2:

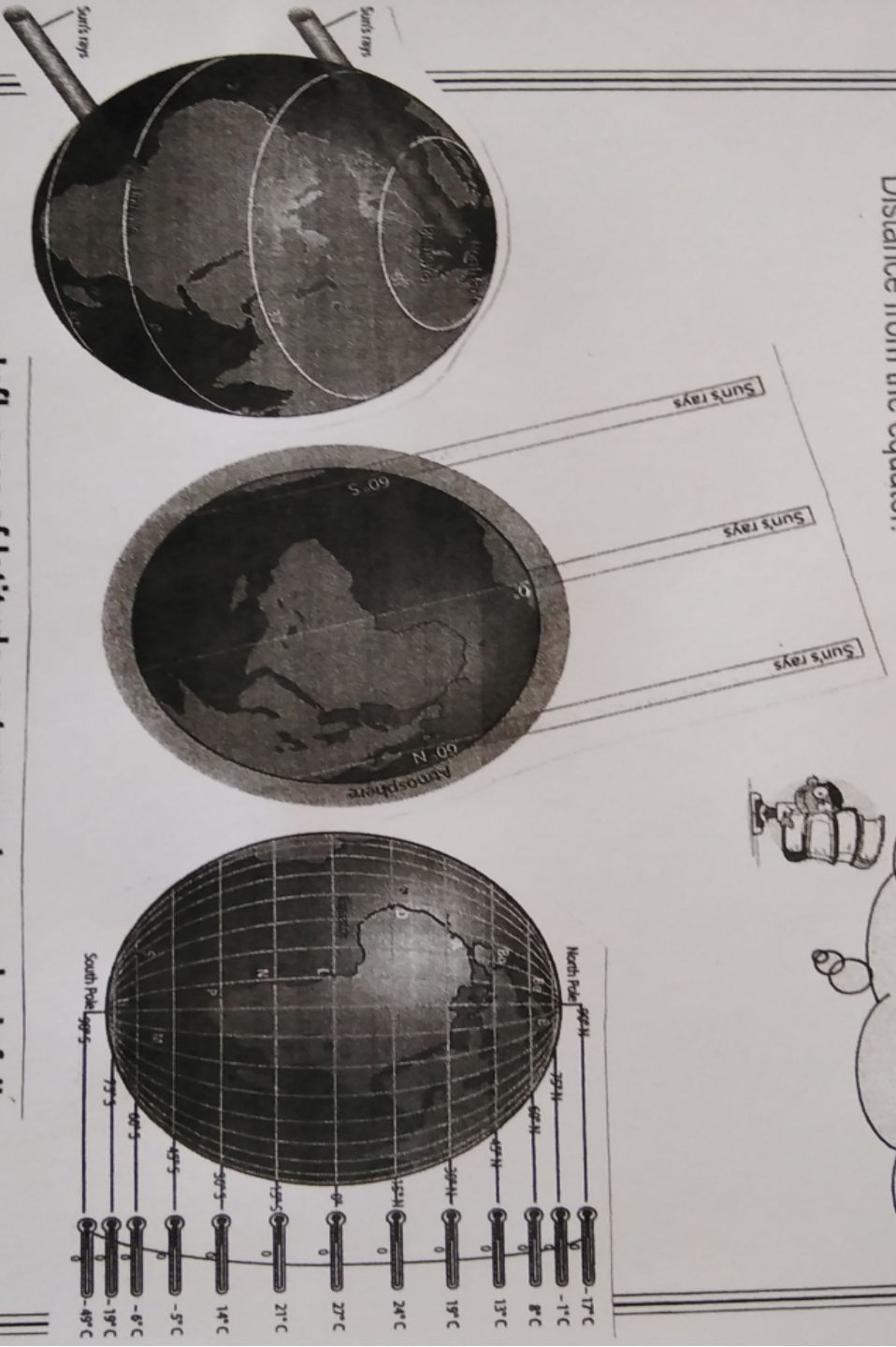
Factors that influence temperature and rainfall.

Distance from the equator:



WEEK 1: 2 April – 5 April

GEOGRAPHY: UNIT 1 – FACTORS THAT
INFLUENCE TEMPERATURE AND
RAINFALL



Influence of latitude on temperature and rainfall

Read about the influence of latitude on temperature and rainfall and answer the following questions.

1. Mean annual temperatures

1.1 Which one of these coastal cities will have the highest mean annual temperature?

- a) Cape Town, South Africa: 34°S 19°E
- b) Caracas, Venezuela: 11°N 67°W
- c) Dunedin, New Zealand: 46°S 171°E
- d) Punta Arenas, Chile: 53°S 71°E
- e) San Francisco, USA: 38°N 122°W

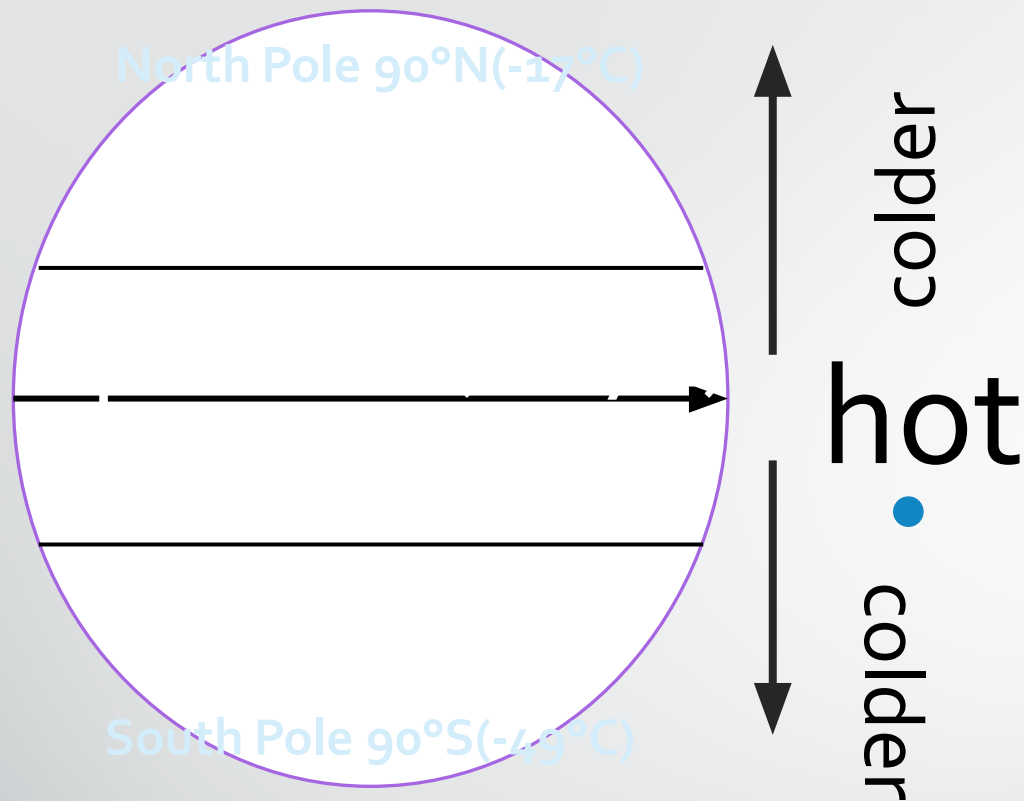
1.2 Which one of those coastal cities will have the lowest mean annual temperature?

2. In your own words, make up a rule that states how latitude affects average temperatures.

3. Under the heading 'How latitude affects temperature', write three explanations in your own words. You can include diagrams that you have made up (not copied) using ideas in Figures 2.1 to 2.3.

ANSWERS:

- 1. Mean annual temperatures.
- Which one of these coastal cities will have the highest mean annual temperature?
- Caracas, Venezuela: 11° N 67° W – it is the closest to the Equator.
- 2. In your own words, make up a rule that states how latitude affects average temperature?
- The further you move north or south from the Equator the lower the temperature will get.
- This should be in your own words.
- Under the heading 'How latitude affects temperature', write three explanations in your own words. You can include diagrams that you have made up using the figures above.



How latitude affects temperatures:

- * Latitude lines run parallel to the Equator.
- * The Equator is the warmest part of the world as the sun's rays fall vertically to the Earth's surface.
- * Heating the area equal to the width of the rays.
- * The further away you move North or South of the Equator, the colder it gets because the rays falling are spread out widely and heat a larger area.