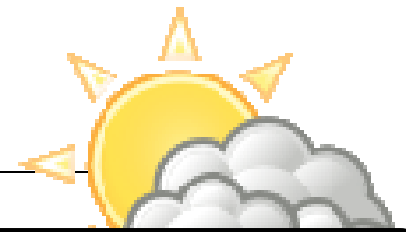


G 4.3 CHANGES CAUSED BY SEASONS



G4.3.3

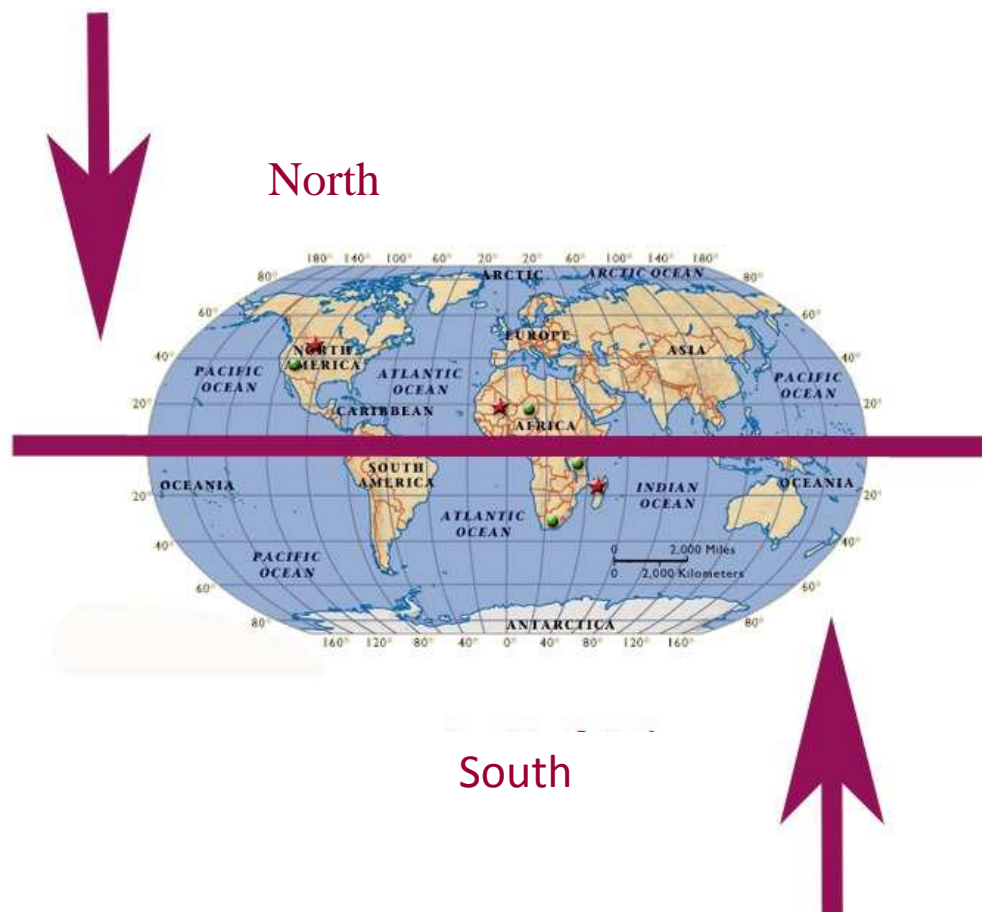
Let us understand how seasons vary in other countries around the world.

A. Why are the seasons different in some countries?

(N.B. These notes should help the teacher and the students understand why seasons are not the same in different countries.)

Helpful Resources:

- a) Globe
- b) Wikipedia article: <http://en.wikipedia.org/wiki/Season>



Because the world is slightly tilted (refer to globe or the picture above), as it is going around the sun, the sun's rays hit different parts of the world with varying strength and power.

Those parts of the world on which the sun is shining directly will have summer.

(Refer to diagram above)

Between the 21st June and the 20th September the sun's rays hit the places in the Northern hemisphere more directly than they hit the places in the Southern hemisphere. Therefore, during this time it will be summer in the North and winter in the South.

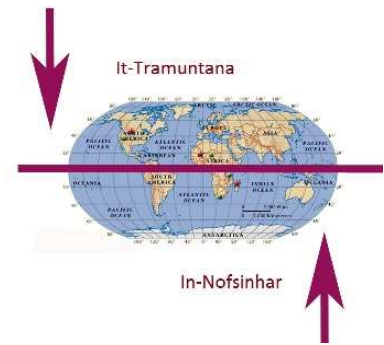
Between the 21st September and the 20th December the places in the North and those in the South are both hit equally by the sun. Therefore the climate in the North will cool down and it will be autumn. At the same time, the places in the South will become warmer and it will be spring.

Between the 21st December and the 20th March, the sun's rays are stronger and more powerful in the South, therefore here it will be summer. At the same time, in Malta which is in the North, it will be winter.

Between the 21st March and the 20th June the sun's strength is the same in both the north and the south hemispheres. Therefore in the North the climate becomes warmer and it is spring. In the South the climate becomes cooler and it is autumn.

B. Why are the seasons different in some countries?

Look at the map in the above notes, and then answer with True or False.



1. When it is summer in Europe, it is winter in Australia. _____
2. In Australia, Christmas is celebrated in winter. _____
3. The seasons are the same in all of Africa. _____
4. In Italy the seasons are the same as those in Egypt. _____
5. When it is winter in the North Pole it is also winter in the South Pole. _____
6. When it is spring in the Northern part of the world, it is autumn in the Southern part. _____
7. Brazil and Canada have the same seasons. _____
8. Russia is so large that the seasons vary from one part of the country to the other. _____
9. In England it is warmest during the months of July and August. _____
10. In America and Canada it is coldest during the months of January and February. _____