

Ch-3 Motions Of The Earth

1.Name two types of motions earth has.  
A1. Rotation(rotation of earth on its axis)  
 Revolution(movement around the sun on a fixed   
 path)  
  
2.The axis of earth makes angle 66.5° angle with?  
A2. Orbital plane(the plan formed by the orbit)  
  
3.why half of the earth gets light from the sun at a time?  
A3. Due to the **spherical shape** of the earth.  
  
4.Name the circle that divides day from night on globe.  
A4.The circle of illumination  
  
5.Period of rotation around the axis is known as?  
A5. Earthday  
  
6.how much time is taken by earth to rotate around its axis?  
A6. 24 hours  
  
7.how much time earth takes to complete one revolution?  
A7. **365.25 days** or 1 year  
  
8.which month has one extra day in leap year?

A8. February (29 days in leap year)  
  
9. Number of days in leap year are?  
A9. **366** (normal year has 365 days)  
  
  
10.Earth revolves around the sun in \_\_\_\_\_\_\_\_\_\_\_ orbit?  
A10. Elliptical  
  
11. Change in seasons is due to?  
A11. **Change in the position of earth** around the earth  
  
12.Name the position of the earth when northern hemisphere is tilted towards the sun.  
A12. Summer Solstice.  
  
13. When does the longest day and shortest night occurs when it is summer in the north of equator?  
A13. 21st june   
  
14. Explain what happens when earth is in summer solstice position?  
A14. –Northern hemisphere is tilted towards the sun  
- rays fall directly on tropic of cancer(areas around it gets maximum heat)  
-areas near poles receive less heat because rays from the sun are slanting  
- Artic circle receives continuous sunlight for six months   
-it is summer in the north of equator  
- it is winter in the southern hemisphere.  
  
15.name the position when south pole is tilted towards sun.  
A15.Winter solstice(days are longer in southern hemisphere and nights are short)  
  
16.which part of earth receives maximum heat durinf winter solstice?  
A16. Tropic of capricorn   
  
17. Southern hemisphere experiences which season during winter solstice?  
A17. Souther hemisphere experiences summers  
 northern hemisphere experiences winter season   
  
18. At what position whole earth experiences equal day and night?  
A18. Equinox  
  
  
**extra**-  
 23rd September :- northern hemisphere -autumn season  
southern hemisphere- spring season  
21st march:- northern hemisphere -spring season  
southern hemisphere-autumn season  
 22nd December:-   
northern hemisphere- winter season  
southern hemisphere-summer season  
21st june-  
northern hemisphere- summer season  
southern hemisphere- winter season