

Lesson 4.1 Make-up Lab  
SEASONS ON EARTH

1. Go to these sites:
2. <http://csc.gallaudet.edu/soarhigh/whyseasons.html>
3. <http://solar.physics.montana.edu/YPOP/Classroom/Lessons/Sundials/sunpath.html>
4. Read information and take notes to be reviewed by me.
5. <http://classroom.jc-schools.net/sci-units/earth.htm#6>
6. Scroll down to **Materials and Resources**
7. Click on [Reasons for Seasons applet](#) and observe the information.
8. Sketch Earth's orbit around the Sun.
9. Sketch Earth and the location of Polaris in the sky.
10. Explain the apparent path of the Sun and the length of daylight to Earth's orbit on its tilted axis.
11. Define the following terms:
  - a) Revolution
  - b) Orbit
12. Describe and draw the position of the Sun and Earth during winter in the Northern Hemisphere.
13. Describe and draw the position of the Sun and Earth during summer in the Northern Hemisphere.
14. Why are summer and winter 6 months apart?
15. What is happening in the Southern Hemisphere when it is winter in the Northern Hemisphere?
16. Earth travels in a slightly elliptical orbit around the Sun. Therefore, Earth is closer to the Sun in December than it is in June. If Earth is closer to the Sun in December, why is December in the Northern Hemisphere colder in June?