

Unit 3: Weather and Climate

Topic: Weather (A)

Name _____

1. Name the turbulent layer of the atmosphere which contains clouds, wind, precipitation.

2. In general, as altitude increases, air temperature _____ and air pressure _____

3. State the importance of the ozone layer.

4. In which layer of the atmosphere is the ozone layer found? _____

5. In what latitude would you find continuous low pressure? _____

In what latitude would you find continuous high pressure? _____

6. In general, what type of weather is associated with low pressure?

7. What type of weather do we associate with high pressure?

8. Define insolation. _____

9. How is the atmosphere heated?

10. Why are the poles so much colder than the equator? Give 2 reasons.

11. Define coriolis effect.

12. Define air mass. _____

13. Name the air mass which brings the Pacific West Coast its wet winter weather.

14. What is a front? _____

15. Why does the Continental Polar air mass from the north seldom move over the coastal regions of British Columbia but may advance as far south as Florida?

16. Air flows from an area of _____ pressure to an area of _____ pressure.

17. Draw a low pressure center. Use arrows to show the direction of air flow.
 Draw a high pressure center. Use arrows to show the direction of air flow.
 Use isobars (lines that join areas of equal pressure) in your drawing.

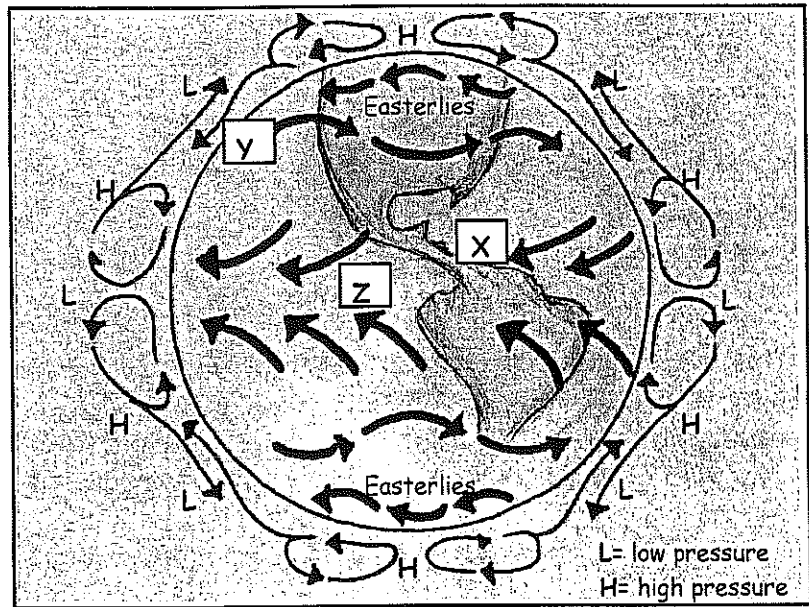


2. Name the air mass which is responsible for bringing cool, moist, and unstable conditions to British Columbia much of the year. _____

3. Winds blowing to the equator at location X are called _____

4. Winds blowing from the Pacific Ocean across the BC coast at location Y are called _____

5. Give the name of the equatorial region at Z in which winds are generally calm. _____



1. The air mass at X which greatly influences the weather along the west coast of BC is called _____

2. Name the air mass at Y which originates in high latitudes. It is cold, stable, and dry as it flows south through the interior of North America. _____

3. What air mass influences the weather at location Z? _____

