

### Topic 5 lesson 3 Check

1. What does a meteorologist do?
2. London, England is about the same distance north of the Equator as Calgary, Alberta, in Canada. However, London's winter temperatures are similar to those in Washington, D.C. and Calgary is so cold and snowy they've hosted the Winter Olympics! Which global pattern causes this climate phenomenon?

Use Figure 4 from page 214 to answer questions 3 and 4

3. From the temperatures shown on the weather map and the knowledge that air masses are usually pushed eastward by the prevailing westerlies, what do you predict will happen to the temperature in Kansas City the day after the map was made? Explain.
4. Use what you know about air pressure and fronts to explain the pattern of cloud cover indicated by symbols in the weather map.