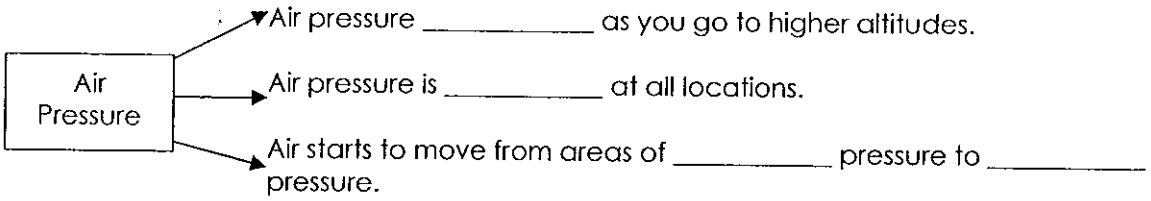
Name: _____ Date: _____ Hour: _____

Air Pressure, Wind and Weather
Section 2.1 and 2.2

Review (p.43)

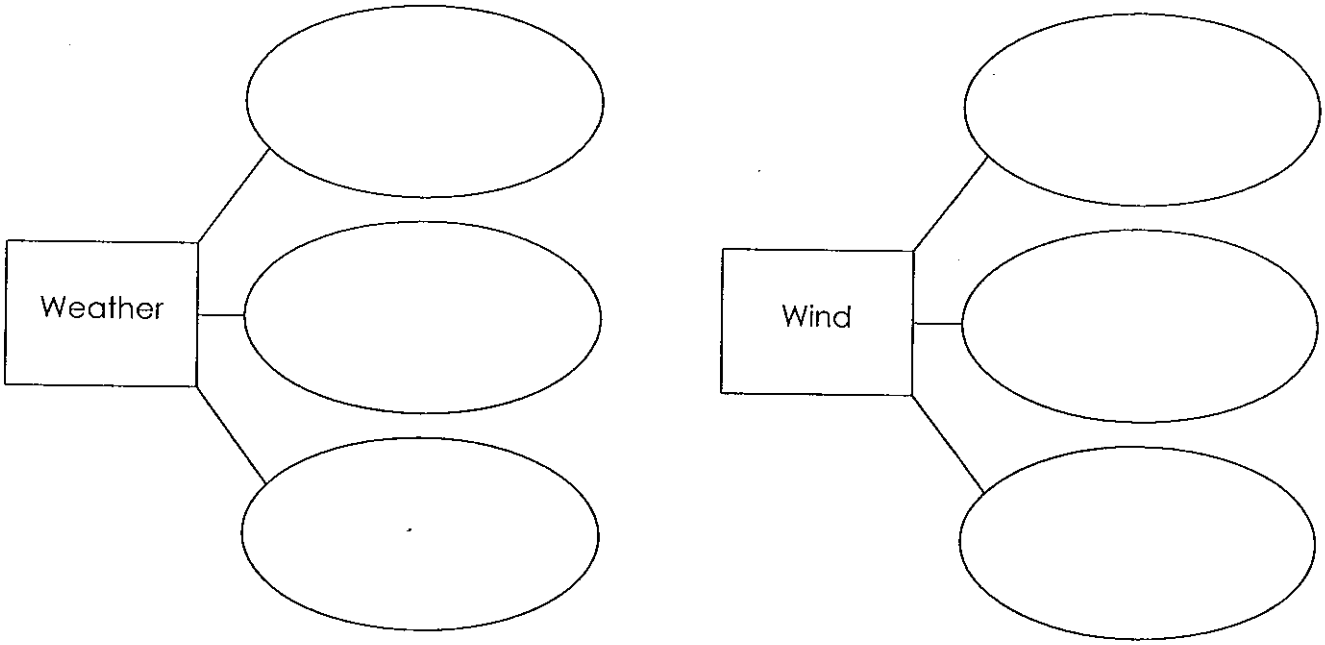
Air pressure is _____

Use page 45 to answer the statements:



Taking Notes (p.47-48)

1. Fill in the diagrams for weather and wind.



2. What causes global winds? _____

_____

Earth's rotation affects wind travel (p.49)

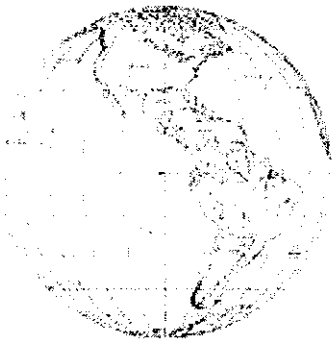
3. What causes the Coriolis effect? _____

4. What direction does the wind curve in the Northern Hemisphere? _____

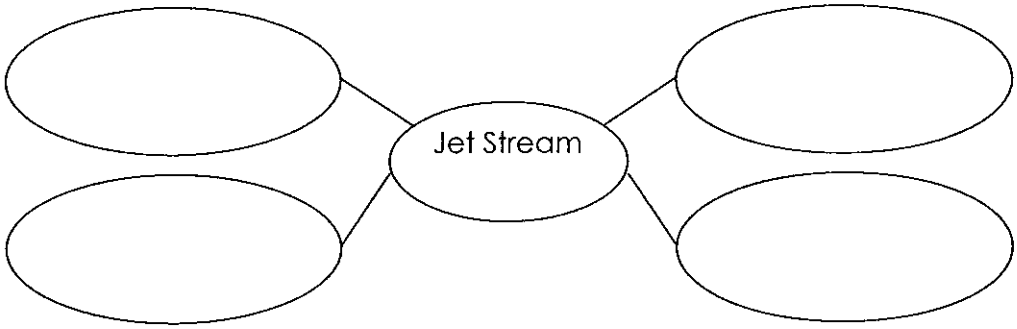
5. What direction does the wind curve in the Southern Hemisphere? _____

Jet Streams flow near the top of the troposphere (p.52)

6. Draw lines on the map that shows approximate positions of the polar jet stream and the sub-tropical jet stream.



7. Complete the cluster diagram with facts about the jet stream.



Skill: Adding Measurements (See page 55 in book to see color coded map)

Navigate the Jet Stream

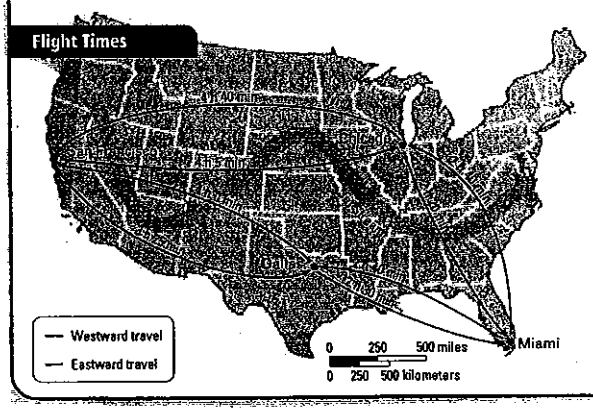
When an airplane is flying in the same direction as a jet stream, the airplane gets a boost in its speed. Pilots can save an hour or more if they fly with the jet stream. On the other hand, flying against the jet stream can slow an airplane down.

Example

To determine the total flight time between San Francisco and Chicago, with a stop in Denver, you need to add the hours and minutes separately. Set up the problem like this:

San Francisco to Denver:	2 h	10 min
Denver to Chicago:	1 h	45 min
Total flight time:	3 h	55 min

ANSWER The total flight time is 3 hours 55 minutes.



Use the Map/Book to answer the following questions.

1. What is the total flight time for an airliner flying from San Francisco to Miami through Chicago?

2. What is the total flight time for an airliner flying from San Francisco to Miami through Dallas?

3. How much time will the fastest possible trip from Miami to San Francisco take?

4. Compare the flight time from Chicago to San Francisco with the flight time from San Francisco to Chicago. How are they different?