Lesson 3 Air Currents

Skim *Lesson 3 in your book. Read the headings and look at the photos and illustrations. Identify three things you want to learn more about as you read the lesson. Write your ideas in your Science Journal.*

Main Idea

Global Winds

I found this on page _____.

Details

Explain *the formation of Earth's global* winds.

The Sun heats Earth's surface unevenly because of the _____ _____. This uneven heating causes differences in _____.

⇩

_____ pressure develops over the tropics. _____ pressure develops over the poles. The movement of air from areas of high pressure to areas of low pressure is called _____.

⇩

Global wind belts influence

a. _____ **b.** _____

Global Winds Belts

I found this on page _____.

Assess *information about circulation in Earth's atmosphere. Read each statement below. If the statement is true, write* true *on the line. If the statement is false, write false on the line and rewrite the underlined portion so that it is true.*

Two of the three cells that scientists use to describe circulation of Earth's atmosphere are <u>conduction</u> cells.

_____

The first belt begins with warm air rising at the equator and dropping back to Earth near <u>30° latitude</u>.

_____

The third cell, at the <u>lowest</u> latitude, is also a convection cell.

_____

I found this on page _____.

Explain *the Coriolis effect.*

Coriolis effect: _____

_____

_____

Main Idea

I found this on page _____.

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Local Winds

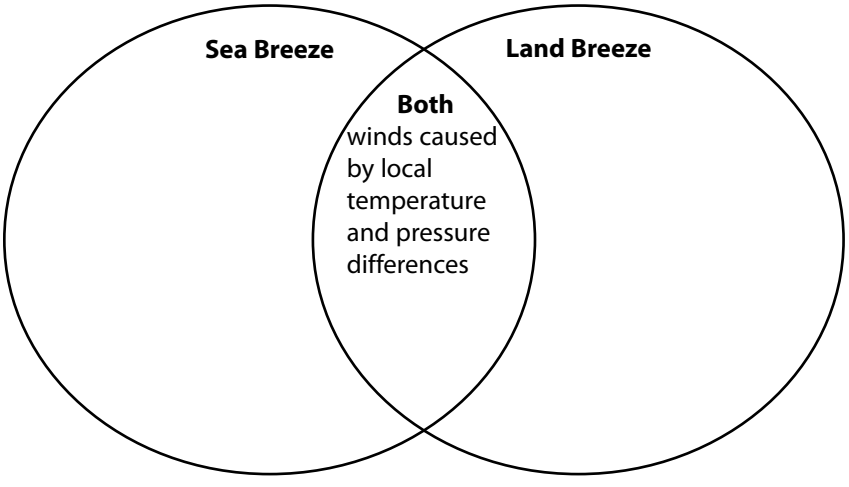
I found this on page _____.

Details

Analyze *prevailing* winds.

Winds	Description
Trade	
Doldrums	
Westerlies	
Polar easterlies	
Jet stream	

Compare and contrast *a* sea breeze *and a* land breeze.



Synthesize It An airplane pilot flying from California to New York would like to make the flight in the shortest amount of time possible. What could the pilot do to decrease his travel time?