



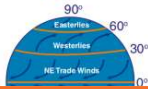
Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 **Radiation balance** refers to the balance between the amount of electromagnetic radiation that **comes into** the earth's atmosphere and the amount of heat that **leaves** the atmosphere. During a time of significant global warming, incoming electromagnetic radiation is \_\_\_\_\_.

- A much less than the loss of heat
- B much greater than the loss of heat
- C increasing every day
- D decreasing every day

3 Wind patterns are very complex. From the equator to the poles, scientists observe bands of winds that blow in different directions occurring in regular **patterns**. The type of winds that blow from 30° N or S latitude in a **westerly** direction are called the \_\_\_\_\_.

- A doldrums
- B westerlies
- C easterlies
- D trade winds



2 **Wind** is simply moving air. It is created, in part, by differences in air pressure between different regions. In general, surface winds blow from the **poles to the equator**.

One can conclude that the **poles have low air pressure** and the **equator has high air pressure**.

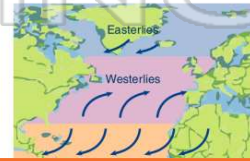


True or false?

- A true
- B false

4 If you wished to travel from **Florida to England** on a sailing ship, you would depend on which winds to move you to your destination?

- A the polar easterlies
- B the westerlies



## PREVIEW

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7 Which of the following is **not** a recorded health effect of **air pollution**?

- A primary pollutants
- B secondary pollutants
- C to be natural, but not pollutants
- D to be insignificant enough not to be classified as pollutants



10 Certain chemicals react with ozone and create oxygen. Satellite imagery has shown that the ozone layer is being destroyed. **Why is the deterioration of the ozone layer a problem?**

- A it is what makes the sky blue
- B without it the average temperature on earth will increase
- C without it the average temperature on earth will decrease
- D without it dangerous ultraviolet rays will not be filtered out, possibly leading to more skin cancer





## ANSWER KEY

**Radiation balance** refers to the balance between the amount of electromagnetic radiation that **comes into** the earth's atmosphere and the amount of heat that **leaves** the atmosphere. During a time of significant global warming, incoming electromagnetic radiation is \_\_\_\_\_.

- A much less than the loss of heat
- B much greater than the loss of heat
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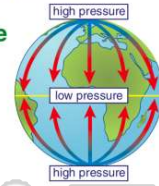
(b)

**Wind** is simply moving air. It is created, in part, by differences in air pressure between different regions. In general, surface winds blow from the **poles to the equator**.

One can conclude that the **poles have low air pressure** and the **equator has high air pressure**.

True or false?

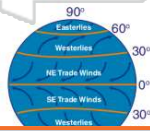
- A true
- B false



(b)

Wind patterns are very complex. From the equator to the poles, scientists observe bands of winds that blow in different directions occurring in regular **patterns**. The type of winds that blow from **30° N or S latitude** in a **westerly** direction are called the \_\_\_\_\_.

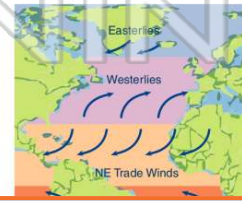
- A doldrums
- B westerlies
- C polar easterlies
- D



(d)

If you wished to travel from **Florida to England** on a sailing ship, you would depend on which winds to move you to your destination?

- A the polar easterlies
- B the westerlies
- C the trade winds



(b)



## PREVIEW

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- C to be natural, but not pollutants
- D to be insignificant enough not to be classified as pollutants



- C true; winds can carry pollution and acid rain very large distances
- D false; acid precipitation is a localized problem



Which of the following is **not** a recorded health effect of **air pollution**?

- A lung cancer and lung disease
- B increased colds and allergies
- C dizziness, headaches, runny nose, and sore throat
- D all of the above are health effects of air pollution

(d)

Certain chemicals react with ozone and create oxygen. Satellite imagery has shown that the ozone layer is being destroyed. **Why is the deterioration of the ozone layer a problem?**

- A it is what makes the sky blue
- B without it the average temperature on earth will increase
- C without it the average temperature on earth will decrease
- D without it dangerous ultraviolet rays will not be filtered out, possibly leading to more skin cancer

(d)