



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 trade winds
- D easterlies



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**.

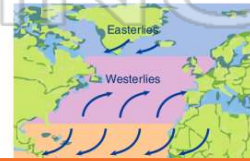


True or false?

- 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



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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?**

- B false; acid rain typically falls near the source of pollution
- C true; winds can carry pollution and acid rain very large distances
- D false; acid precipitation is a localized 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
- C increasing every day
- D decreasing every day

(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?

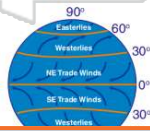
- A true
- B false



(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 _____.

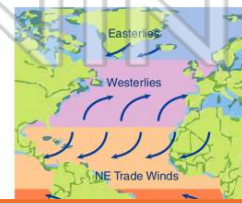
- A doldrums
- B westerlies
- C polar easterlies
- D



(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)



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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)