



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.

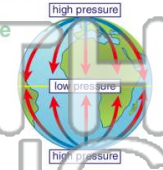
During a time of significant global warming, incoming electromagnetic radiation is _____

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

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



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 _____

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



5

PREVIEW

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7 wildfires are all considered _____.

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



8 _____ Michigan. True or false, and why?

A true; acid rain in California pollutes water in Michigan
 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



9 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

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



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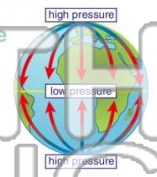
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One can conclude that the **poles have low air pressure** and the **equator has high air pressure**.

True or false?

- A true
- B false



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Michigan: true or false, and why?

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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
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- 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