

## Black body radiation recall questions

1. What type of radiation do all objects emit and absorb? **Infrared**
2. More ir radiation is emitted by a **hotter** body.
3. An object that absorbs all radiation is called **a perfect black body**.
4. This would also be the best possible **emitter of ir radiation**
5. If an object absorbs and emits radiation at the same rate this means its temperature **stays the same**.
6. For temperature to increase then **a body must absorb more radiation than it emits**.
7. For temperature to decrease then **and vice versa**.

## **Black body radiation application questions**

1. What two things does a black body not do with radiation?
2. Say three factors does the temperature of the earth depends upon.
3. Explain why a volcanic eruption might cause the Earth's temperature to become cooler.
4. Explain why increased CO<sub>2</sub> levels might cause the Earth's temperature to become warmer.