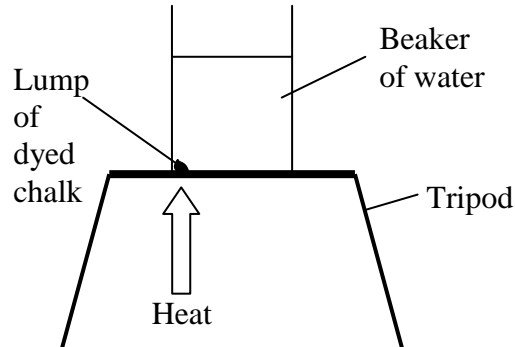


Heat Homework 3

1. Draw arrows on the following diagram to show the direction of a convection current.



(1)

2. On the back of this sheet, draw a diagram to show how a coal mine could be ventilated using a convection current. Make sure you describe what is happening at each stage. (3)

3. How does the mass of 1cm^3 of hot water compare to the mass of 1cm^3 of cold water?

_____ (1)

4. The mass of 1cm^3 of a substance is a measurement of an important property of that substance. Name the property.

_____ (1)

5. Using the word density in your answer, explain why hot water rises through cold water.

_____ (2)

6. On the back of this sheet draw a diagram to show how a sea breeze is formed. Make sure you describe what is happening at each stage. (2)