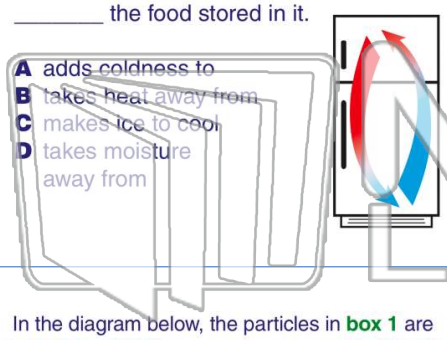
Heat and heat technology

Sci H

Name_____ Class_____ Date_____

1 To keep food fresh, a **refrigerator** _____ the food stored in it.



A adds coldness to
B takes heat away from
C makes ice to cool
D takes moisture away from

2 Using the diagram below, predict the **state of matter** of the particles in box 1.

A solid
B liquid
C gas
D porous

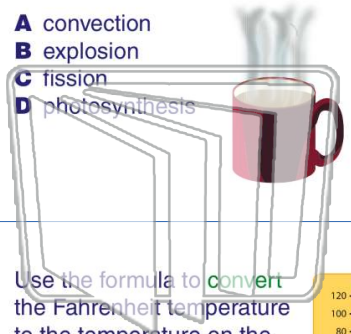
3 In the diagram below, the particles in **box 1** are **moving around** more and are more **scattered** than in the other boxes. What is the

4 Using the diagram below, predict which box or boxes would have the **lowest** temperature inside of it.

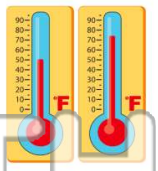
5

7

A convection
B explosion
C fission
D photosynthesis



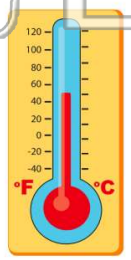
A The liquid has contracted more in tube #2.
B The liquid has expanded more in tube #2.
C There is less air in tube #2.
D There is less friction in tube #2.



9 Use the formula to convert the Fahrenheit temperature to the temperature on the Celsius scale.

$$^{\circ}C = \frac{5}{9} \times (^{\circ}F - 32)$$

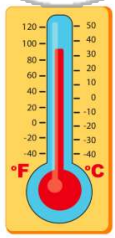
A 5°C C 15°C
B 10°C D 20°C



10 This thermometer reads 95°F. How much of a rise in degrees **Celsius** would be necessary to reach the temperature at which water boils?

$$^{\circ}C = \frac{5}{9} \times (^{\circ}F - 32)$$

A 100°C C 65°C
B 212°C D 137°C



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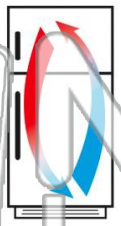

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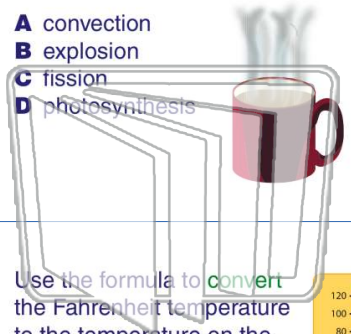

A

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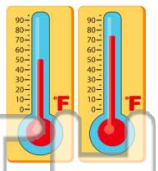

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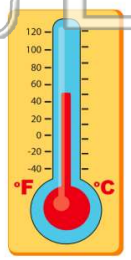

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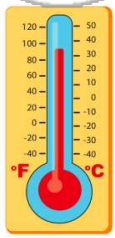

C