

# States of Matter Test Yourself 3

## Melting and Boiling Points

| Noble gas | Melting point °C | Boiling point °C |
|-----------|------------------|------------------|
| Neon      | -249             | -245             |
| Helium    | -272             | -268             |
| Krypton   | -157             | -152             |
| Argon     | -190             | -186             |

State the substance with the highest boiling point.

Write down the names of the substances in order of increasing melting points.

State the name of the substance that has the greatest difference between its melting and boiling point.

## State 3

State the 3 states of matter.

State 3 factors that affect the rate of diffusion.

State 3 examples of diffusion.

## Word Search

Find the following key words in the word search and write a sentence to explain each term.

C O N D E N S A T I O N S X R  
M X G P S I D U S O W U L M O  
F E P N Q I T U W K B K P L X  
H Y L R I W Z M Q L Q T X E L  
T B G T M Z W C I I N B E B G  
U Z J C I L E M B I M Y V I B  
W E A K X N A E O A V C A N H  
R R X C R T G P R P M P P P T  
H J A M I J G P V F D J O O V  
K U Q O U N B K O L V D R Z J  
C J N O I H Q W Q I M I A N V  
U Z C L S I W D X E N J T R I  
S E I T R E P O R P I T I C K  
U O Z U E Z F C N H M B O P H  
B V E I J B L U J I C U N V V

boiling point

condensation

evaporation

freezing

melting point

properties

sublimation

# States of Matter Test Yourself 3 Answers

## Melting and Boiling Points

| Noble gas | Melting point °C | Boiling point °C |
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| Neon      | -249             | -245             |
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| Argon     | -190             | -186             |

State the substance with the highest boiling point.

**Krypton**

Write down the names of the substances in order of increasing melting points.

**Helium, neon, argon, krypton**

State the name of the substance that has the greatest difference between its melting and boiling point.

**Krypton**

## State 3

State the 3 states of matter.

**Solid, liquid and gas**

State 3 factors that affect the rate of diffusion.

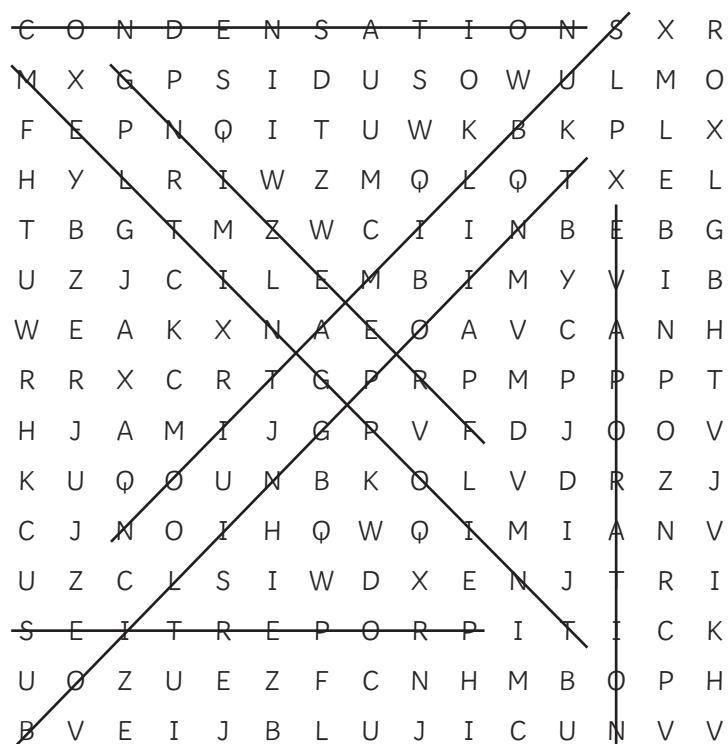
**temperature, particle size and concentration**

State 3 examples of diffusion.

**oxygen and carbon dioxide diffusing into and out of cells, perfumes, deodorants**

## Word Search

Find the following key words in the word search and write a sentence to explain each term.



boiling point

condensation

evaporation

freezing

melting point

properties

sublimation

**Boiling point:** changing from a liquid to a gas.

**Condensation:** changing from a gas to liquid.

**Evaporation:** boiling a liquid until a gas is formed.

**Freezing:** change of state from liquid to solid.

**Melting point:** changing from solid to liquid.

**Properties:** how a substance behaves.

**Sublimation:** change of state from solid to gas.