

Ionic Compounds Keywords

1. Complete the gaps in each sentence. You can use the word bank below, or cover it up for an extra challenge!
 - a. Ionic compounds have a _____ arrangement of ions. The ions alternate between positively charged _____ ions and negatively charged _____ ions. The pattern repeats and creates a large _____ structure.
 - b. Ionic compounds have _____ melting points. This is because of the many _____ bonds between the ions. It takes a _____ of energy to overcome this attraction. This is also true for the _____ point.
 - c. When solid, an ionic compound _____ carry an electric current. This is because the ions are _____ in place.
 - d. When dissolved or molten (melted), an ionic compound _____ carry an electric current. This is because the ions are _____ to move.

Word bank: Read carefully! You might not need all of the words

lot, little, free, high, low, regular, metal, positively, strong, boiling, irregular, can, non-metal, cannot, fixed, negatively, lattice, weak.

Score: /12

2. Draw a diagram to show the arrangement of ions in sodium chloride (salt).

Try to label all of these words on your picture: positive, negative, metal, non-metal, electrostatic forces, lattice, sodium, chloride, anion and cation.

Ionic Compounds Keywords Answers

1. Circle the correct answer.

- a. Ionic compounds have a **regular** arrangement of ions. The ions alternate between positively charged **metal** ions and negatively charged **non-metal** ions. The pattern repeats and creates a large **lattice** structure.
- b. Ionic compounds have **high** melting points. This is because of the many **strong** bonds between the ions. It takes a **lot** of energy to overcome this attraction. This is also true for the **boiling** point.
- c. When solid, an ionic compound **cannot** carry an electric current. This is because the ions are **fixed** in place.
- d. When dissolved or molten (melted), an ionic compound **can** carry an electric current. This is because the ions are **free** to move.

Score: /10

2. Draw a diagram to show the arrangement of ions in sodium chloride (salt).

Try to label all of these words on your picture: positive, negative, metal, non-metal, electrostatic forces, lattice, sodium and chloride.

