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QUESTION 1

Select the answer that correctly completes the sentence.

A complete transfer of one or more electrons from one atom to a different atom forms a(n) _____.

- [x] ionic bond
- [ ] nuclear bond
- [ ] covalent bond
- [ ] covalent and ionic bond at the same time

QUESTION 2

Select your answer from the drop-down menu.

When an atom loses an electron, it is called a(n) ion .

QUESTION 3

Select all that apply.

Which of the following properties describe most of the ionic compounds?

- [ ] They do not dissolve in water
- [x] They are solid at room temperature
- [ ] They have low melting and boiling points
- [ ] They are liquid at room temperature
- [ ] They are gases at room temperature
- [x] They conduct electricity when dissolved in water

QUESTION 4

Select your answer from the drop-down menu.

Ionic bonding involves the transfer of electrons ✓ .

QUESTION 5

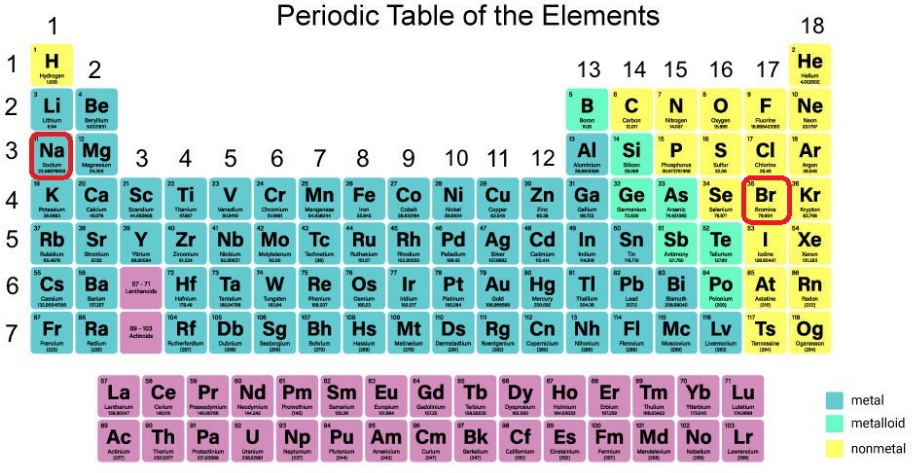
Select your answer from the drop-down menu.

In an ionic bond, nonmetals ✓ tend to gain electrons.

QUESTION 6

Select the correct answer.

Sodium is a highly reactive metal located in group 1 and period 3 of the periodic table. Bromine is located in group 17 and period 4 of the periodic table. Identify the type of bond between Sodium and Bromine in Sodium bromide (NaBr).

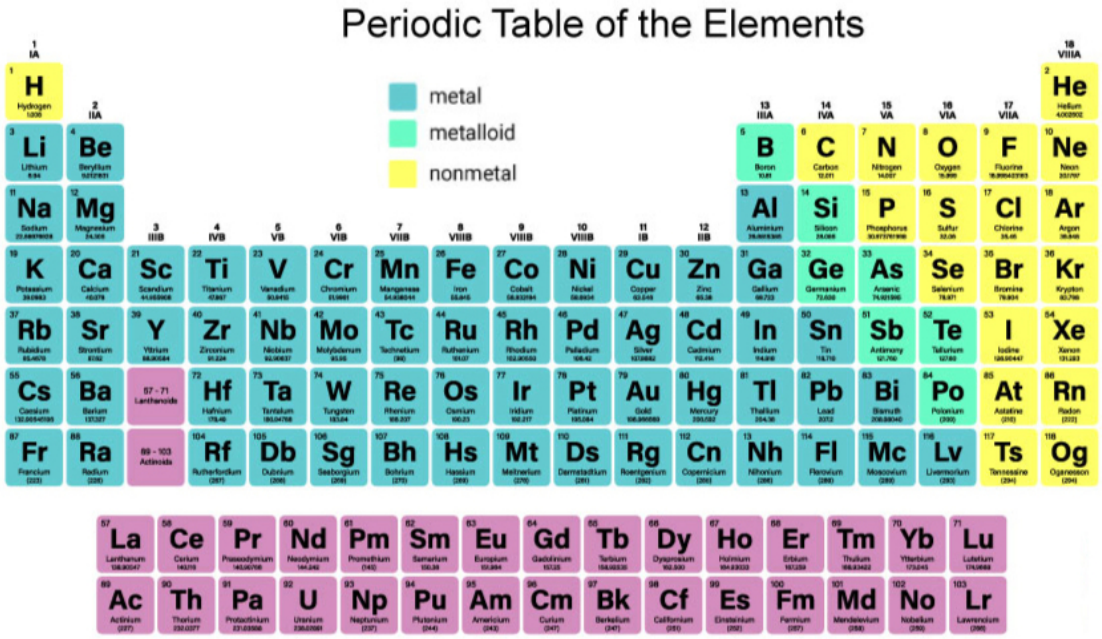


- ○ single covalent bond

- [x] ionic bond
- [ ] triple covalent bond
- [ ] double covalent bond

QUESTION 7

Select all that apply.



Refer to the image of the periodic table to answer the question.

Which of the following pairs of elements form ionic bonds?

- [x] Li and F

- [ ] C and H
- [x] Na and Cl
- [ ] C and O
- [ ] N and N
- [x] Na and Br

QUESTION 8

Select your answer from the drop-down menu.

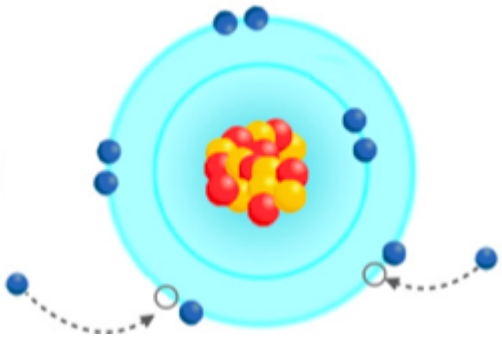
Some ionic compounds are liquid at room temperature and they are called

ionic liquids .

QUESTION 9

Select the correct answer.

What would be the charge of this atom?



- +2
- +4
- -2 ✓
- neutral

QUESTION 10

Select your answer from each drop-down menu.

Sodium chloride, or table salt, forms due to a chemical bond between sodium and chloride ions. A sodium atom has one electron in its outermost energy level, and a chlorine atom has 7 electrons in its outermost energy level. The atoms will form a(n) ionic bond ✓ by transferring ✓ electrons.

QUESTION 11

Select the correct answer.

If an atom loses three electrons, what charge will it have?

- ○ + 1
- ○ - 3
- ○ - 2
- ✓ + 3

QUESTION 12

Drag and drop the answer that correctly completes the sentence.

The charge on any ion depends upon the gain or loss of [electrons ✓].

nucleus | neutrons | protons

QUESTION 13

Select the answer that correctly completes the sentence.

Metal atoms usually lose electrons and form _____.

- new atoms
- negative ions
- positive ions ✓
- dipolar ions

QUESTION 14

Select the answer that correctly completes the sentence.

Most of the ionic compounds are found in the _____.

- solid state ✓
- liquid state

freezing state

gaseous state

QUESTION 15

Select your answer from the drop-down menu.

Potassium is a metal, so its atom will lose one electron to form a positive ion.