

Hardships

Enrol

Appointed

Confirm

Gallium

Scandium

Respectively

Respect

Mineral recovery

Expansion of liquids

Densities of gases

Smokeless powder

Endless

Approve of

Resignation

Трудность

Вступить в члены организации

Назначать

Подтверждать, одобрять

Галий

Скандий

Соответственно

Уважать, уважение

Восстановление минерала

Увеличение жидкости

Плотность газа

Бездымный порох

Бесконечный

Одобрять что-то

Уход в отставку

Complete the definitions below with the following words:  
**Hardship, resign, confirmed, solution, density, enroll,  
appoint, resulted, expand, uniform**

- 1. They are going to ... a new professor in the Chemistry department.**
- 2. Many famous people in the past suffered a lot of ... to achieve their goals.**
- 3. The experiment provided that the gases had a ... reaction, that is the same reaction.**
- 4. Most schools expect you to ... before you begin your studies.**
- 5. The ... of a substance is how thick and compact it is.**
- 6. If metal is heated you will see it ... .**
- 7. It was a ... made up of water and salt.**
- 8. If somebody is unhappy in their job, they may ... .**
- 9. The experiment in the lab ... in a huge explosion.**
- 10. The outcome of the experiment ... his theory.**

Read the text and answer the questions in your own words.

1. What position did Mendeleev achieve at the University of St Petersburg?
2. Why did Mendeleev leave gaps in the periodic table of elements?
3. How were Mendeleev's predictions proven correct?
4. What contribution did Mendeleev make in the area of solution?
5. What did Mendeleev's formula concerning gases explain?

Answer the following questions

1. What do you know about atoms and electrons?
2. What do you know about chemical reactions?

Listen to a teacher explaining to a class how electrons work.

Then complete each sentence with one word.

1. Mendeleev didn't know about ... .
2. The periodic table arranged by Mendeleev was based on ...
3. Electrons are located in ... around the nucleus of an atom...
4. Valence electrons determine the ... properties of an element.
5. Lithium and ... have only one valence electron.
6. Lithium and boron have ... electron shells.

Discuss these questions with your partner

- Besides the nucleus and electrons, what else is found in an atom?
- Do you think scientists will discover any more elements?
- What is the role of periodic table?
- How does the modern periodic table work?

