

The *atoms, elements, compounds, mixtures* video provides an introduction to this aspect of the Chemistry GCSE. However exam-style questions on this topic will, of course, include more complex material. To answer the exam-style question below you will also need to know some of the material covered in the *atomic structure* and *electronic structure* videos.

0 1 . 1

Most substances are either elements, compounds or mixtures.

How many known elements exist?

Circle the correct answer.

[1 mark]

About 50      About 100      About 1000      More than 1000

0 1 . 2

How many known compounds exist?

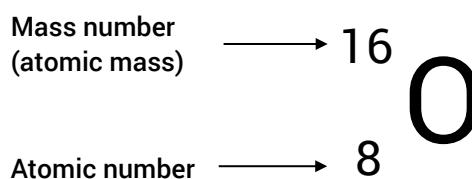
Circle the correct answer.

[1 mark]

About 50      About 100      About 1000      More than 1000

0 1 . 3

Oxygen is an example of an element. The following information is given about oxygen in the periodic table.



What information about oxygen is given by the mass number and the atomic number? [2 marks]

Atomic number \_\_\_\_\_

\_\_\_\_\_

Mass number \_\_\_\_\_

\_\_\_\_\_

0 2 . 1

Which of the given numbers identifies the element?

[1 mark]

\_\_\_\_\_

\_\_\_\_\_

0	2	.	2
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The diagram shows an atom of the element beryllium and its data from the periodic table.

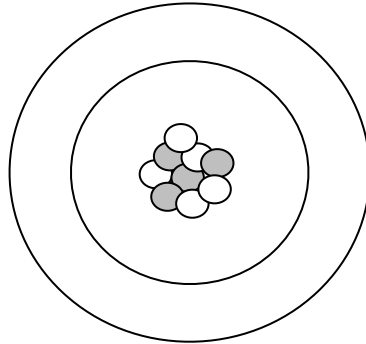


Diagram 1

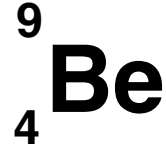


Table 1 shows two of the sub-atomic particles that are present in an atom of beryllium.

Table 1

Particle	Number
Protons	.....
Neutrons	.....

Complete the table to show the number of each of the particles. [2 marks]

0	2	.	3
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Complete Diagram 1 to show the number and position of electrons that are present in an atom of beryllium.

[3 marks]

(Total 10 marks)

End