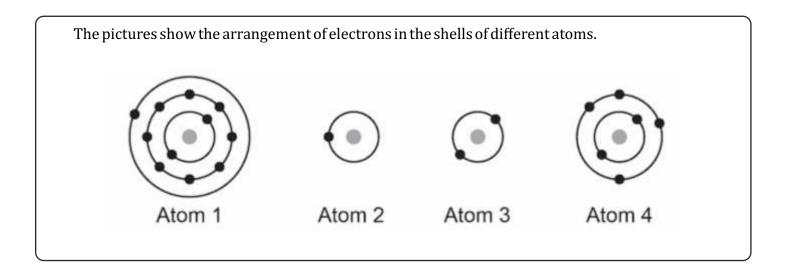
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Curriculum Aligned Competency Based Test Items Science Class 9 – Chapter 4 Structure of the Atom



SAS21S090401

Which two atoms have the same valency?

- A. Atom 1 and Atom 2
- B. Atom 2 and Atom 3
- C. Atom 3 and Atom 4
- D. Atom 4 and Atom 1

SAS21S090402

Which atom has the highest atomic number?

A. Atom 1

1

2

- B. Atom 2
- C. Atom 3
- D. Atom 4

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Science Class 9 - Chapter 4

SAS21S090403

3

What is the maximum number of electrons that can be present in the **first** shell of an atom?

- A. 1 2
- B. 4
- C.

8

D.

The	picture shows the symbol for sodium. $23_{11}Na_{11}$		
4 Wha	11 ¹ t does the number 23 represent for sodium?	SAS21S09	0404
		SAS21S09	0405
5 Wha A. B. C. D.	t can be concluded about sodium from the symbol? It contains 11 neutrons. It contains 12 protons. It contains 12 neutrons. It contains 34 electrons.		
	ch of these statements about the isotopes of an element is correct? e 'Yes' or 'No' for the correct response. 	SAS21S09	0406
	Is the statement correct?	Yes or No	
	The isotopes have the same chemical properties.	Yes / No	

The isotopes have the same number of neutrons.

The isotopes have the same number of electrons.

Yes / No

Yes / No

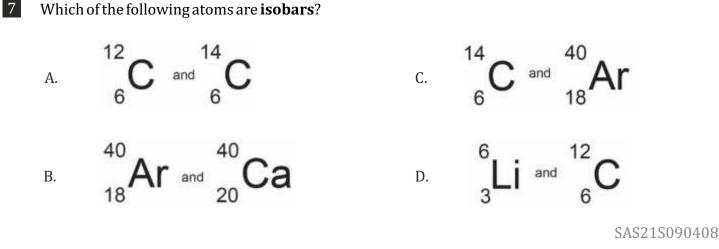
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Curriculum Aligned Competency Based Test Items



Science Class 9 - Chapter 4

SAS21S090407



8

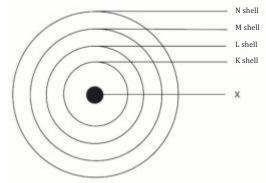
What would be the valency of an element that is chemically inactive?

- 0 A.
- B. 1 2

5

- C.
- D.

The outer boundary of Zone 1 is made of solid structures in the shape of isosceles triangles of the same size and barbed wires.



SAS21S090409

9 What does X represent in the atomic model?

SAS21S090410

10 Which scientist proposed this atomic model?

- A. Neils Bohr
- B. J. Chadwick
- С. J.J. Thomson
- **Ernest Rutherford** D.