

APOLLO

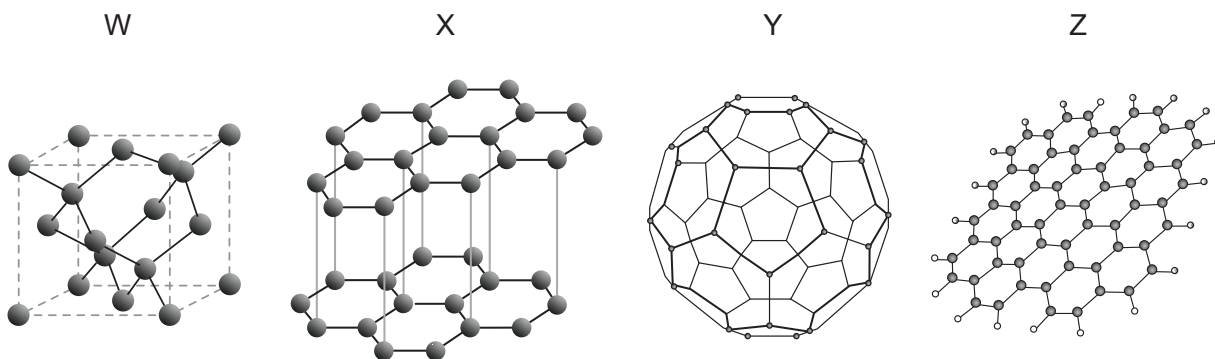
From models to materials SL

Chemistry

First assessment 2025

5 questions | questions

8. Diagrams of four stable allotropes of carbon are shown.
Which row correctly identifies each structure?



	Graphene	Fullerene	Graphite	Diamond
A.	Z	Y	X	W
B.	W	Z	Y	X
C.	X	W	Z	Y
D.	Y	X	W	Z

8. Which allotropes of carbon are electrical conductors?

- I. Graphite
- II. Diamond
- III. Graphene

- A. I and II only
- B. I and III only
- C. II and III only
- D. I, II and III

- 10.** Which type of material is a good conductor of heat and electricity in solid and liquid states, is insoluble in water, and typically has a high melting point?
- A. Covalent molecular
 - B. Covalent network
 - C. Ionic
 - D. Metallic

9. Which substance, made from two elements with electronegativities E_x and E_y , is an alloy?

	Average electronegativity $\frac{E_x + E_y}{2}$	Electronegativity difference $E_x - E_y$
A.	2.5	2.5
B.	2.5	1.0
C.	3.5	0.2
D.	1.2	0.2

10. Which structure shows the repeating unit of the polymer formed by but-1-ene?

