

Question			Answer	Marks	Guidance
5	(a)	(i)	<i>Nuclear charge mark</i> (Across the period) number of protons increases OR greater nuclear charge ✓ <i>Quality of written communication – nuclear OR proton(s) OR nucleus spelled correctly ONCE for the first marking point</i> <i>Distance / shielding mark</i> (Outermost) electrons are in the same shell OR (Outermost) electrons experience the same shielding OR Atomic radius decreases ✓ <i>Nuclear attraction (to electron) mark</i> Greater nuclear attraction (on outermost electrons) OR (outer) electrons are attracted more strongly (to the nucleus) ✓	3	FULL ANNOTATIONS WITH TICKS, CROSSES, CON, etc MUST BE USED Comparison should be used for each mark IGNORE atomic number increases, but ALLOW proton number increases IGNORE nucleus gets bigger IGNORE 'effective nuclear charge increases' DO NOT ALLOW 'charge' increases without reference to nuclear ALLOW shielding is similar BUT IGNORE 'there is shielding' DO NOT ALLOW sub-shells OR orbitals ALLOW greater nuclear pull for greater nuclear attraction DO NOT ALLOW use of greater nuclear charge for greater nuclear attraction for third mark
		(ii)	(Diamond and graphite form) gaseous atoms (of carbon when they are ionised) ✓	1	ALLOW the atoms are in the gaseous state

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