

Bohr Models & Lewis Dot Diagrams

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1. Identify the Number of Valance Electrons and Draw the Lewis Dot Structure

Notes: Scientists use *Lewis Dot Structures* to show the valance electrons of an element as dots. Since bonding involves the valance shell electrons only, it is only necessary to illustrate those outer electrons.

Element	Bohr Diagram	Group Number (on periodic table)	# of Valance Electrons	Lewis Dot Structure
Calcium		2	2	Ca with 2 dots
Carbon		4	4	C with 4 dots
Hydrogen		1	1	H with 1 dot
Helium		8	2	He with 2 dots
Oxygen		6	6	O with 6 dots
Fluorine		7	7	F with 7 dots
Neon		8	8	Ne with 8 dots
Sodium		1	1	Na with 1 dot
Aluminum		3	3	Al with 3 dots

Ca

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