

# Molecule Practice

Name: \_\_\_\_\_

<b>Shape 1: CO<sub>2</sub></b>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
Shape Name	Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No
<b>Shape 2: SiO<sub>3</sub><sup>2-</sup></b>	Molecule Name <i>silicate</i>
Lewis Dot Diagram	Molecular Drawing with Angles
Shape Name	Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No
<b>Shape 3: CH<sub>4</sub></b>	Molecule Name <i>methane</i>
Lewis Dot Diagram	Molecular Drawing with Angles
Shape Name	Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No

Shape 4: SO <sub>2</sub>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
Shape Name	Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No
Shape 5: OF <sub>2</sub>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
Shape Name	Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No
Shape 6: NF <sub>3</sub>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
Shape Name	Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No

<b>Shape 7: CF<sub>4</sub></b>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
<hr/> Shape Name	<hr/> Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No
<b>Shape 8: H<sub>2</sub>O (O is the central atom)</b>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
<hr/> Shape Name	<hr/> Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No
<b>Shape 9: HCN (C is the central atom)</b>	Molecule Name <i>Hydrogen cyanide</i>
Lewis Dot Diagram	Molecular Drawing with Angles
<hr/> Shape Name	<hr/> Symmetrical?
Polar Bonds? Calculation: Yes      No	Polar Molecule? Yes      No

<b>Shape 10: PH<sub>3</sub></b>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
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Shape Name	Symmetrical?
Polar Bonds? Calculation:	Polar Molecule?
Yes      No	Yes      No
<b>Shape 11: SeO<sub>2</sub></b>	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
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Shape Name	Symmetrical?
Polar Bonds? Calculation:	Polar Molecule?
Yes      No	Yes      No
<b>Shape 12: BF<sub>3</sub></b> (B is happy with only 6 electrons)	Molecule Name
Lewis Dot Diagram	Molecular Drawing with Angles
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Shape Name	Symmetrical?
Polar Bonds? Calculation:	Polar Molecule?
Yes      No	Yes      No