

Name:

Grade:

Date:

Chemistry Chapter 4.3 – Molecular Shapes

Structural Diagrams

Covalent molecules have different structures than substances with ionic bonds.

PH_3
Molecular formula

$\begin{array}{c} \text{H} - \ddot{\text{P}} - \text{H} \\ | \\ \text{H} \end{array}$
Lewis structure


Space-filling
molecular model

$\begin{array}{c} \text{H} - \text{P} - \text{H} \\ | \\ \text{H} \end{array}$
Structural formula


Ball-and-stick
molecular model

Match the followings

1.molecular formula of ammonia NH_3
2. Ball and stick model of ammonia NH_3
3.Space filling model of ammonia NH_3
4.Structural formula of ammonia NH_3
5. Lewis structure for ammonia

A.	$\begin{array}{c} \text{H} - \text{N} - \text{H} \\ \\ \text{H} \end{array}$
B.	NH_3
C.	$\begin{array}{c} \text{H} - \ddot{\text{N}} - \text{H} \\ \\ \text{H} \end{array}$
D.	
E.	