

Name:

Grade:

Date:


## Chemistry Chapter 4.3 – Molecular Shapes

### Structural Diagrams


Covalent molecules have different structures than substances with ionic bonds.

$\text{PH}_3$   
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 $\text{NH}_3$
2. Ball and stick model of ammonia $\text{NH}_3$
3.Space filling model of ammonia $\text{NH}_3$
4.Structural formula of ammonia $\text{NH}_3$
5. Lewis structure for ammonia

A.	$\begin{array}{c} \text{H} - \text{N} - \text{H} \\   \\ \text{H} \end{array}$
B.	$\text{NH}_3$
C.	$\begin{array}{c} \text{H} - \ddot{\text{N}} - \text{H} \\   \\ \text{H} \end{array}$
D.	
E.	