


Basic Vocabulary

- 1. Conjecture: ~~Proved~~ *Agrees based on observations.*
- 2. Postulate: *A Basic truth that needs no proof.*
- 3. Theorem: *A truth that has been proven true.*

4. Point:  $\bullet P$

5. Line: 


6. Collinear: *Points on the same line.*

7. Plane: *A flat surface* ie) plane ABD 

8. Coplanar: *Point on the same plane*

9. Segment: 

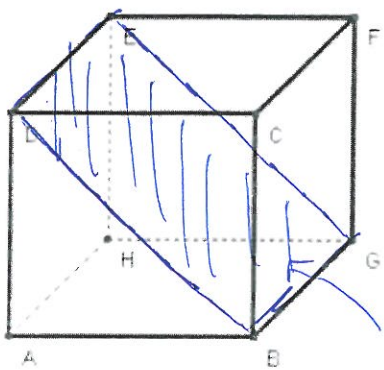
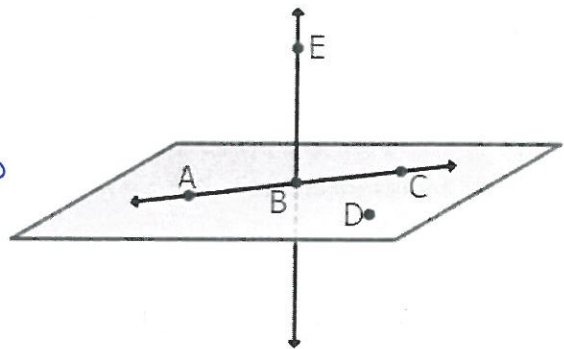
10. Ray: 

11. Opposite Rays: *Form a straight line*   
 $\vec{AC}$  and  $\vec{AB}$  are opp. rays.

12. Parallel Lines: *Coplanar lines that never intersect.* ie)  $\vec{DC}$  and  $\vec{AB}$

13. Skew Lines: *Non-coplanar lines that never intersect.* ie)  $\vec{DC}$  and  $\vec{FG}$

14. Parallel Planes: *planes that never intersect.* ie) plane ABC and plane HGF.

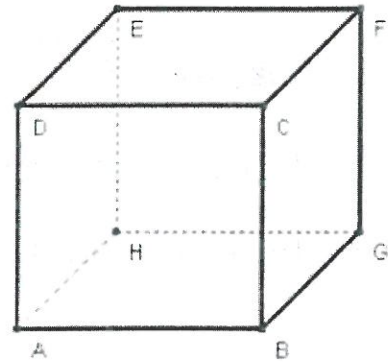


\* notice: points ~~D~~, ~~B~~, and ~~G~~ are coplanar.  
plane DBG.

Simple Postulates:

1. How many lines can pass through 2 given points?

1. ie)  $\overline{E}$  and  $C$  are collinear



2. How many planes can pass through 3 given non-collinear points?

1. ie)  $D, B, G$  are coplanar.  
But,  $D, B, G, C$  are not coplanar

3. Where do 2 lines intersect?

at a point. ie)  $\overline{DC}$  intersects  $\overline{CF}$  at  $C$ .

4. Where do 2 planes intersect?

at a line. ie) plane  $ABC$  and plane  $CBG$  intersect at  $\overline{CB}$ .