## GEOMETRY: UNIT 2

VOCABULARY

## WARM-UP

Draw and label a diagram for each figure.

1. $<A C B$
2. $a \| b$
3. $c \perp d$
4. A line where points $x, y$ and $z$ are coplanar.

## GEOMETRIC VOCABULARY

- Content Objective: Students will be able to identify, sketch, and label diagrams involving points, lines, planes, and angles.
- Language Objective: Students will be able to use symbolic notation to label, in writing, diagrams involving points, lines, planes, and angles.


## BASIC TERMS

| word | definition | drawing/example |  |
| :--- | :--- | :--- | :--- |
| point | dimension = 0 <br> represented by a dot | $\bullet^{\mathrm{K}}$ | point K <br> dimension =1 <br> represented by a straight line <br> with two arrows <br> goes on forever both directions |
| plane | dimension = 2 <br> flat surface that <br> extends in all directions | M/ plane M |  |

## BASIC TERMS CONTINUED



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## INTERSECTING LINES

- The intersection of two figures is the set of points that are in both figures.

- $A$ is in $I$, or $A$ is on $I$.
$I$ contains $A$.
I passes through A.

- I and $h$ intersect in $O$.
$I$ and $h$ intersect at $O$.
$O$ is the intersection of $I$ and $h$.


## INTERSECTING PLANES

Similar Intersections can occur between a lines and a plane, or between two planes


- $k$ and $P$ are in $M$.
$M$ contains $k$ and $P$.
$j$ intersects $M$ at $P$.
$P$ is the intersection of $j$ and $M$.

- $M$ and $N$ intersect in $\overleftrightarrow{X Y}$.
$\overleftrightarrow{X Y}$ is the intersection of $M$ and $N$. $\overleftrightarrow{X Y}$ is in $M$ and $N$.


## EXAMPLES IN THE REAL WORLD: \#1

- Look at the image. Tell me how many examples you can find of the terms you have been given?



## EXAMPLES IN THE REAL WORLD: \#2

- Look at the image. Tell me how many examples you can find of the terms you have been given?



## EXAMPLES IN THE REAL WORLD: \#3

- Look at the image. Tell me how many examples you can find of the terms you have been given?



## EXAMPLES IN THE REAL WORLD: \#4

- Look at the image. Tell me how many examples you can find of the terms you have been given?



## USING THE DIAGRAM GIVEN, GIVE THE FOLLOWING <br> 

5. Parallel Lines.
6. Four collinear points.
7. Three angles using the point $B$.
