

TOPIC: **1.1 Identify Points, Lines, and Planes**

NAME:

DATE:

ESSENTIAL QUESTION: **How do you name geometric figures?**

QUESTIONS:

undefined terms

point

line

plane

collinear points

coplanar points

defined terms

line segment

endpoints

ray

opposite rays

intersection

**A1. Sketch the following.**

- a. Point C on plane S    b. Opposite rays,  $\overrightarrow{GE}$  and  $\overrightarrow{GA}$     c. line JK

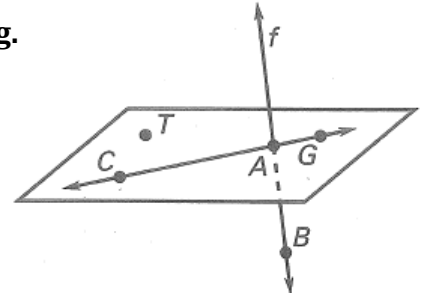
SUMMARY:

QUESTIONS:

NOTES:

**A2. Use the figure to answer to following.**

- Give the five other names for  $\overleftrightarrow{CG}$ .
- Give three points that are collinear.
- Give two names for the plane shown.
- Name the intersection of the plane and line  $f$ .



**A3. Are  $\overrightarrow{MN}$  and  $\overrightarrow{NM}$  the same ray? Opposite rays? Explain.**

**A4. Are any of the following situations with 3 planes is possible?**

- None of the 3 planes intersect.
- The 3 planes intersect at one line.
- The 3 planes intersect at one point.
- Two planes do not intersect and a 3<sup>rd</sup> plane intersects the other two.
- Only 2 of the 3 planes intersect.

**A5. Use the diagram at the right.**

- Name the intersection of plane B and line  $k$ .
- Name the intersection of plane B and  $\overleftrightarrow{PQ}$ .
- Name the intersection of plane B and plane A.

