

IDENTIFYING SHAPES IN SPACE

Challenge students to find geometric shapes on rocket ships, then design a spacecraft of their own.

Objective

Students will identify and draw shapes using shape names.

Standards

Common Core

Math

- **Grade 1: 1.G.A.1** Distinguish defining attributes of shapes
- **Grade 2: 2.G.A.1** Recognize and draw shapes with specified attributes

Time

40 minutes

Materials

- Find the Shapes in a Rocket activity sheet
- Out-of-This-World Family Fun family activity sheet
- Bonus activity sheets: Practice Punctuation + How Can I Solve Problems?



Remote Ready


- 1 Ask** students if they have heard the word **rocket**. *What does it mean? (Type of spaceship.) What does it look like? What kinds of people might be around a rocket? (Scientist, astronaut...)* Introduce the term **rocketry**—the science of designing, building, and flying rockets.
- 2 Ask** your students to use their imaginations. If they designed a rocket, which shapes would they use? *Would they be inspired by the shape of an animal? A different kind of vehicle? Would they be inspired by another unexpected object?*
- 3 Explain** to the class that they will examine the plans for two rocket ship designs. Then they will play the role of a rocket scientist as they design their own spaceship using geometric shapes.
- 4 Distribute** the Find the Shapes in a Rocket activity sheet and work together as a class or individually to complete the grade-specific instructions (Grade 1 = Level A; Grade 2 = Level B).
- 5 Using** the appropriately leveled list on the activity sheet, have students select three or more types of shapes. Instruct them to use these shapes to draw their own rocket ships. Encourage them to be creative!
- 6 Invite** students to pair up and share their rocket ships and discuss where and how shapes are used in their designs.




If learning remotely, student pairs can write short letters to each other about the rockets they designed and/or include a copy of their drawing.

Extension Have students use recycled materials to create a 3D model of their rocket ship design.

Related Activities

 **Rockets in ELA:** Add fun to punctuation practice with the Practice Punctuation activity sheet. Then use the story ideas on the sheet to “launch” a writing activity.

 **Problem-Solving in Science & SEL:** Using the card cutouts on the How Can I Solve Problems activity sheet, students analyze scenarios and identify skills they can use to address them.

Standards for Related Activities

Common Core—ELA

- **Grade 1: L.1.2.B** Use end punctuation for sentences
- **Grade 2: L.2.2** Demonstrate command of punctuation

CASEL—Social and Emotional Learning

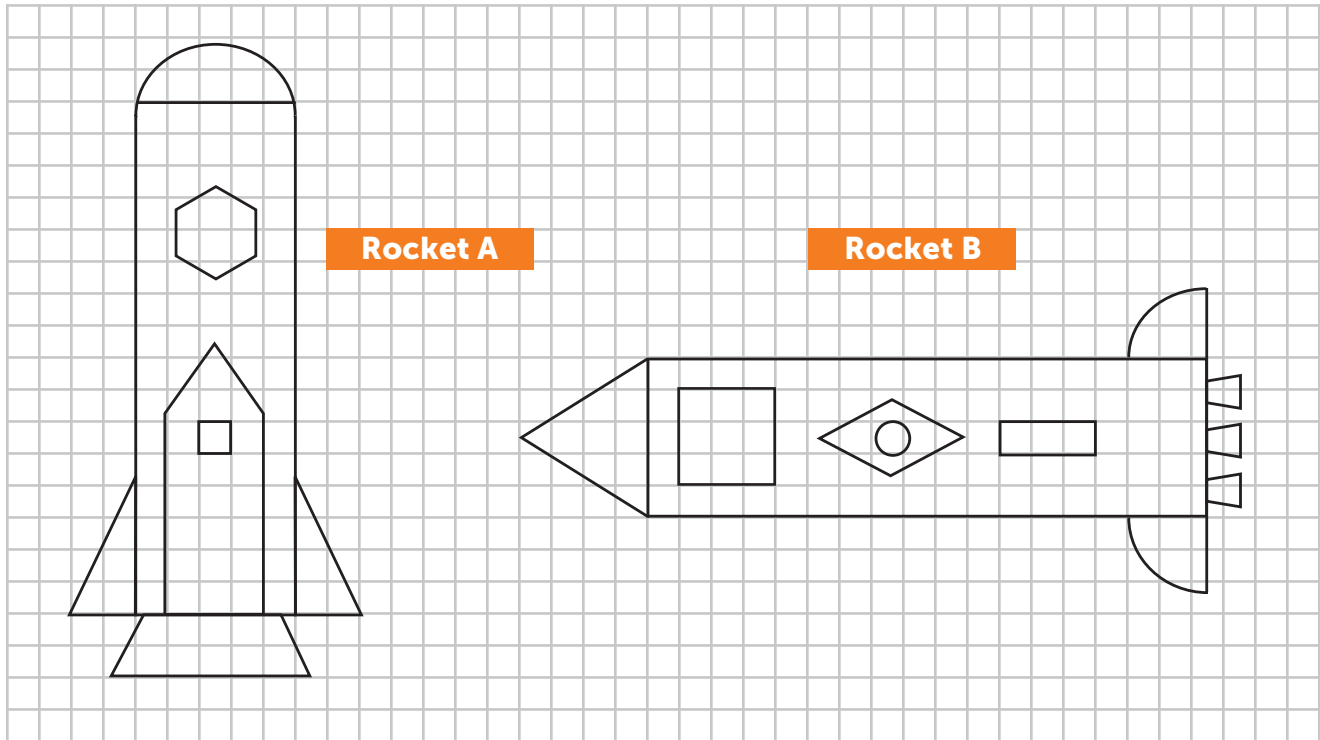
Responsible decision-making, relationship skills, self-awareness



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Name _____

FIND THE SHAPES IN A ROCKET



LEVEL A

Find a:

- circle
- square
- triangle
- rectangle

Try to find a:

- rhombus
- trapezoid

Now look for a:

- half-circle
- quarter-circle

LEVEL B

Find a:

- quadrilateral
- How many kinds of quadrilaterals can you find? _____

Find a:

- pentagon
- hexagon

Find a shape with:

- 3 angles
- 5 angles
- 6 angles