Four Square

- Can you build a square by combining shapes? Try building a smaller square using 2 small brown triangles (F). Now, set out 4 large purple squares (A) on the table. Use the following combinations of shapes to completely cover each square:
  a. 2 Blue rectangles (C)
  b. 4 Orange squares (B)
  c. 2 Green triangles (E)
  d. Blue rectangle (C) and 2 orange squares (B)

- Here is a challenge. Place a large purple square (A) on the table. Can you use 6 smaller pieces to cover it completely? (Hint: start with 2 small orange squares (B) in opposite corners.)

Sorting by Sides

- When we describe shapes, we talk about the length and number of sides and corners (where two sides meet). Do not use the large yellow circles, purple half circles, or red quarter circles for this activity.

- Sort the shapes by number of sides. Put one of each shape with 3 sides in one pile. Put one of each shape with 4 sides in a different pile. How many sides does the large yellow hexagon (H) have? Which pile has the most shapes? How many corners does each shape have? The number of sides and corners is the same!
Same Side

• Can you find all the shapes with sides of equal lengths? For example, look at the large purple square (A). All 4 sides are the same length. Can you find 4 other shapes that have equal sides? (Answer: Small orange square (B), large orange triangle (I), small green triangle (N), and large yellow hexagon (H).)

Face to Face

• Use shapes to build different faces! Draw a large oval on a white piece of paper. Use shapes to represent eyes, nose, and a mouth. Can you make the faces with different expressions? Here are a few examples. What words would you use to describe these expressions?

Shape Shuffle (1 or more players)

• The yellow circles, purple half circles, and red quarter circles are not used in this game.

• Place all the shapes in a bag or a box (something you cannot see through). Without looking, reach into the bag and take out one shape. Now, reach into the bag again and try to find a shape with the same number of sides. If you were correct, keep both shapes. For example, if you take out a large square and a red trapezoid, you keep both since they both have 4 sides. If you were not correct, put both pieces back in the bag; it’s the next player’s turn. The first player to collect 10 pieces wins! For a challenge, play again—this time, you only keep the pieces if they are exactly the same size and shape.
Shape Trace

- Tracing is great for building hand muscles and fine motor skills. Make a shape picture by tracing around different shapes to create a masterpiece! The shapes are translucent (partially see through), so you can place the shape right next to something you already drew to build your picture.

Ship Shape

- Build a giant ship using as many pieces as you can! Here is a suggestion for one way to build a ship. Can you make it bigger? Create your own shape ship!