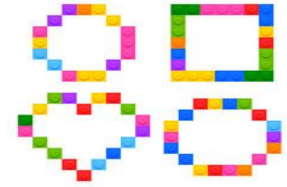


# Build A Shape

Explore different ways to make a shapes

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## ENGAGE

Facilitate a quick discussion about shapes. Ask questions, like:

- Who can give me an example of a shape?
- How many corners does that shape have?
- Does that shape have any curved lines?
- Is that shape a 2D shape or a 3D shape?
- What's the difference between 2D and 3D shapes?

(Repeat this line of questioning with another shape)

## EXPLORE

Provide students with their LEGO bricks. Ask them to create a shape using their bricks. Their goal is to make the shape look as accurate as possible (i.e., corners, edges, equal sides, etc.).

## EXPLAIN

When the students have finished building their shapes, ask questions like:

- What shape did you build?
- Did you have to make changes to your shape?
- What changes did you make (if any)?
- What was challenging about building this shape?
- Why might certain shapes be more difficult to build than others?

## ELABORATE

For an extra challenge, have students build a shape again—but this time, they must build the shape (however they choose) **AND** then they must build the same exact shape next to it, but this shape must have all of the LEGO bricks/elements fully connected (i.e., there can be no loose bricks or pieces just sitting next to each other).

## EXTEND

Challenge students to build a shape, but place constraints on their LEGO builds:

- Build a square using only red bricks.
- Build a triangle using only 5 bricks/elements.
- Build a rectangle using a color pattern (i.e., red, blue, red, blue).
- Build a shape of your choice using exactly 10 bricks/elements.
- Build a shape of your choice but you cannot use any green bricks/elements.