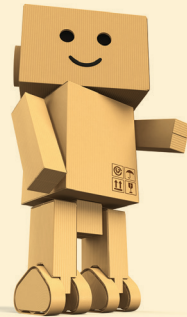


FIGURE 2. Math 6 – Build a Robot Project

Build your own cardboard robot using tape and scrap cardboard from around your house (cereal boxes, etc).

Project Goals:

1. To build a robot, use materials from around your house.
 - a. In your design, include at least one of each shape
 - i. 2D shapes – rectangle, square, triangle, parallelogram, trapezoid
 - ii. 3D shapes – rectangular prism
 - b. When you add decoration to your robot include the following types of angles in your design
 - i. Acute, obtuse, reflex, straight, right
2. To calculate the perimeter, area, and volume of each shape
3. To identify types of angles



CHESKY / SHUTTERSTOCK

Materials Needed

Cardboard, tape, ruler (cm)

Project Timing

This project should take between 2–3 hours to complete.

Learning Goals to Explore

Curricular Competencies	Content
<ul style="list-style-type: none"> • I can explore mathematical concepts through play and inquiry 	<ul style="list-style-type: none"> • I can calculate perimeter • I can calculate area of a triangle, parallelogram, and trapezoid • I can calculate volume • I can identify various types of angles

Either take a photo of your robot, or sketch your final design. Identify where on your robot are the trapezoid, parallelogram, triangle, and 5 types of angles:

Evidence of your work:

Math Concept Evidence	Drawing of concept (include robot measurements)	The Math (using the measurements from your robot)
Perimeter of a triangle		
Area of triangle		
Area of trapezoid		
Area of parallelogram		
Volume of rectangular prism		

Self Assessment Criteria

Learning Goal	I'm Starting to Get it	I Am Almost There	I Got It!
I can calculate the PERIMETER of a triangle			
I can calculate the AREA of a triangle, parallelogram, and trapezoid			
I can calculate the volume of a rectangular prism			
I can identify the 5 types of angles (acute, right, obtuse, straight, reflex)			