

# Introduce Angles!

Sure, angles can be confusing. Strange math vocabulary, not to mention drawing and measuring skills, can be intimidating for new geometry learners. But, with a little help, your child will be on an angle hunt in no time! That's because everywhere we go, there are angles galore.

## What You Need:

- ruler
- tape measure
- compass
- pencil
- paper
- markers



## Review:

An angle is formed when two rays share the same endpoint. The point where the rays intersect is called the “vertex” of the angle. The two rays are called the sides of the angle. Angles are measured in degrees. There are three types of angles:

1. Acute angles are angles measuring between 0 and 90 degrees.
2. Obtuse angles are angles measuring between 90 and 180 degrees.
3. Right angles are angles measuring exactly 90 degrees.

Perpendicular lines are two lines that intersect at the right angle. In contrast, parallel lines are lines that are always the same distance apart and will never meet.

Rectangles are parallelograms with four right angles. Triangles are polygons with three sides.

## What You Do:

- Have your child look around the house to identify examples of angles, perpendicular and parallel lines, rectangles and triangles. For example, the hands on the clock, legs on a chair, grout lines around tiles, door frames, picture frames, etc.
- Have her write down all the examples on paper. Then use a ruler (or tape measure) and/or compass to measure and record the lengths and angles of the objects.
- To give your child further practice measuring, identifying and drawing these key terms, have her draw an array of angles, perpendicular and parallel lines, rectangles and triangles in an artistic design on a large sheet of paper using the proper tools. Encourage her to let the lines, rays and figures overlap in various parts, as well as to orient the figures at different angles—think of this in terms of creating modern art! Then have her use different colored markers to color in all enclosed figures. For example, if a pair of parallel lines overlaps a rectangle, then there would be three separate enclosed figures to color in.
- Display her work of art for all to see!