Bicycle Built for Technology, Part 2

Why do bicycles have different designs? Measure the features of a bicycle. Then compare your measurements to those of other teams.

**What You Need:** bicycle • measuring stick • masking tape

**Bicycle Type** (distance, speed, mountain, cargo, general):

1. Tape a mark on the bike's front tire. Then tape another mark on the floor directly under the axle (see drawing).

2. Measure the radius—the distance from the axle to the outside of the tire.

   Radius: __________________________

3. Count the spokes in the front wheel.

   Spokes: __________________________

4. Measure the height of the saddle (seat) from the ground.

   Saddle height: ____________________

5. Use the back of this page to draw and describe the handlebars.

6. The trail size tells how stable (steady) a bicycle is. The bigger the trail size, the steadier the bike. Place a stick along the fork from the handlebars to the floor. Mark where the stick touches the floor. Measure the distance between this mark and the floor mark under the axle.

   Trail size: ________________________