

PASTA BRANCHES

Roles

- The **counter** is responsible for counting and placing the dried beans into the cup.
- The **recorder** is to verify the count after the noodle breaks and record the data.
- The **catcher** is responsible for placing hands under the cup to catch the container with beans (otherwise, they will be all over the floor and difficult to find/count).

Gather the Following Materials

- Tape
- Permanent Marker
- Ruler
- 5 Dry Spaghetti Noodles
- 1 Piece of String
- 1 Plastic Cup Almost Full of Dried Beans

Step 1: Measuring from left to right, use the marker to mark all 5 pasta noodles at 1 inch, 2 inches, 3 inches, 4 inches, 5 inches, and 8 inches.

Step 2: Tape the string to the plastic cup so that it is like a bucket with a handle. Depending on the length of string, consider tying the string into a circle, taping the knot to the bottom of the cup, then along the sides of the cup.

Step 3: Tape the pasta to the edge of the table such that the edge of the table is at the 8 in. mark of your pasta noodle, and the other markings on the pasta are hanging over the edge of the table.

Step 4: Place tape on the 1-in. marker so that it will prevent the cup and string from sliding off the spaghetti noodle and hang the cup at the 1-in. marker.

Step 5: Start slowly adding beans to the cup, one at a time, until the pasta noodle breaks. Record your results in the following table.

	x	y
Marker	Length (in.) from Table (8" Marker)	Number of Beans
1-inch		
2-inch		
3-inch		
4-inch		
5-inch		

Step 6: Repeat steps 3-5 for the remaining markers.