

Team Members: _____ Date: _____

Spool Racer Design Worksheet

Spool Racer Initial Design					
Material	rubber band	washer	tape	toothpick	pencil
Type					
Quantity used					
In the space below, make a sketch and notes about your spool racer.					

Once you are done, build a spool racer by strictly following your design above.

Test your spool racer over a flat area. Keep in mind that you want to make your spool racer:

- Run as far as possible
- Run in a straight line as much as possible
- Use as few materials as possible (why?)

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After testing, revise your design to meet all THREE criteria: faster, go farther, and go up an incline. Feel free to test and revise for a few times. Finalize your best design and record it in the box below:

Spool Racer Final Design					
Material	rubber band	washer	tape	toothpick	pencil
Type					
Quantity used					
In the space below, make a sketch and notes about your spool racer.					

Compare your final design with your initial design and circle (or describe) the changes you made.

How did your changes improve your spool racer so that it now meets all the design criteria? Explain.