



Paper Roller Coasters

Every entry starts with 80 points, next to each bullet below are the number of points you could lose by not reaching the associated design requirement. The lowest grade earned will be a 50.

- Your coaster must have a name. (2 pts)
- It needs to work without helping the marble along and by starting the marble from rest. (2 pts for each assist)
- It needs to be reliable. Demonstrate that it will work successfully 3 times
- At least 1 loops (3 pts)
- At least 1 funnel. (2 pts)
- At least one track design piece that is not one of the supplied templates. But it can be made from them or pieces of them and you can add your own pieces from any material. The piece you add cannot be part of a commercial product that utilizes the transportation of a marble. (4 pts) (ex. Tunnel, jump, stairs ... be creative)
- Two diagonal supports must be used where each vertical column touches the base. (4 pts)
- Horizontal beams must make a ring around the vertical supports as shown. The rings can be at the same height or at different heights. (3 pts)
- Vertical column at every corner and at least one vertical column in the middle of the base's longest dimension. (4 pts)

Extra Credit For All Participants

You are also competing for extra credit points to be added to the score. This will make it possible to receive more than 100% for the project. This is done by winning one or more of the following competitions.

Best scenery (+5 additional points)

Lots of quality scenery covering the entire coaster and platform. Spending money on fancy scenery will not automatically make you a winner. Simple, but clever or well done, designs show more creativity -especially when they support the name and theme of your coaster.

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Best Theme (+5 additional points)

What's the name of your roller coaster? Does your scenery support this theme? Does the design support your theme? Is there a coolness or cleverness factor to your name?

Most creative design element (+5 additional points) Looking for something different. You may use items not made from paper for this. You cannot use anything that was originally designed as a part of any kind of roller coaster toy.

Most complex design. (+5 additional points) Wow. We're looking at the loops, twists ,dips, turns, etc.

Biggest Jump. (+5 additional points) Not even the biggest thrill seekers would attempt to ride this ride.

Well Crafted Design. (+5 additional points) So sturdy that it would survive even the deadliest tornado