How to Design the World's Best Roller Coaster – Wood v. Steel

Paul Mason

- ¹ The decision to build your roller coaster from wood or steel will need to be made on which material will provide the best ride.
- ³ Wooden roller coasters are unusual. In 2007, there were 2,088 roller coasters in the world: 1,921 were steel and just 167 were wooden.

5 What's good (and bad) about wood?

GOOD: Wooden roller coasters have a special character. The noise they make and the feel of riding one as the wood bends and sways is exciting. Wood is also a renewable material.

9 BAD: Wood is not as strong as steel. Its shape can be affected by heat, cold, wet and dryness. Wooden roller coasters are mainly built and painted by hand, which may take a long time and cost a lot of money.

12 What's good (and bad) about steel?

GOOD: Steel is stronger than even the strongest wood, so steel roller coasters can have higher speeds and more forceful turns. The parts of the roller coaster can be made with 100% accuracy in a factory, then assembled at the amusement park. Steel's shape is not affected by normal temperatures or the weather. Steel roller coasters last for longer than wooden ones.

18 BAD: Steel roller coasters do not flex and sway, nor make the racketyclack noise that people enjoy aboard a wooden ride. Steel is not renewable (though it can be recycled).

21 The final decision

Steel is stronger and can be used to build a more extreme roller coaster. And since this design is for the best roller coaster in the world, it is going to have some extreme features.

- 28 Steel cannot provide the noise and feel of a wooden roller coaster, but a steel ride can make up for that in sheer thrills and excitement.
- 33 So which material will you make your roller coaster from? What will help you to decide?



N	ame:	Class:		Date
1	"Wood v. Steel"			
	In the heading, what does "v." stand for?			
	"Wooden roller coasters have a special character."			
	In this sentence, which word is closest in meaning to "character"?			
	Tick one .			
	advantage appeal appearance strength			
	Why would a wooden roller coaster not be a good idea in a country winters and hot summers?	ike Canada,	which ha	s cold
1	Find and copy one feature of a wooden roller coaster that makes it	exciting to r	ide.	
	The parts of which type of roller coasters can be made with 100% a	ccuracy in a	factory2	
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