

2024 SCORE SHEET

Name of Roller Coaster: _____

School Name: _____

Circle one: Middle School or High School

Circle one: Traditional or 3D Printed

Does the coaster fit in the size constraints (36x36x60in)? _____

Demonstration

Attempt	Successful?	Time
1st run		
2nd run		
3rd run		
Most Open Extra Run		
Most Open Extra Run		
Average ride time		

TECHNICAL SCORE - RELIABILITY (36 points maximum)

(Number of Successful Runs: _____) * 12 points each up to 36

TECHNICAL SCORE – RIDE DURATION (15 points maximum)

Less than four seconds = 0 points

Four to six seconds = 5 points

Six to ten seconds = 10 points

Greater than ten seconds = 15 points

TECHNICAL SCORE - ENGINEERING (10 points maximum)

Judges will subjectively award up to ten points for the overall design and construction of the coaster. Paper tracks may only receive 5 points maximum.

THEME – Creativity (20 points maximum)

Name and theming elements, as well as unique features of the model are included here.

THEME - Feasibility (20 points maximum)

The model roller coaster will be judged for its merits as a possible ride to be purchased by an amusement park.

BONUS POINTS – LOOPS

5 points * Number of completed vertical loops: _____

BONUS POINTS – TRACK DESIGN (40 points maximum, judges discretion)

90% more open - up to 10 bonus points

90% most open - up to 20 bonus points

100% most open - up to 40 bonus points

***Any elements keeping the ball on the track can reduce eligibility and total points given.**

BONUS POINTS – SUPERLATIVE AWARDS (10 points each)

Judges will award ten points each for the best coaster in the following categories

☐ Most likely to be implemented as a real design

☐ Most Creative/Unique

Final Score

(sum of all points above):

