

ROLLER COASTER OF PHYSICS

VOCABULARY

Directions: Select a minimum of **10 CONCEPTS** that you will use in your project presentation in front of the class. **Highlight** the ones that your group has selected to use to explain the physics of your roller coaster.

*You **DO NOT** need to define any of the words.

1. ACCELERATION (or DECELERATION):
2. ACTION FORCE:
3. AIR RESISTANCE:
4. CENTRIFUGAL FORCE:
5. CENTRIPETAL FORCE:
6. CONVERSION (OF ENERGY):
7. FORCE (BALANCED vs. UNBALANCED):
8. FREEFALL:
9. FRICTION (ROLLING, SLIDING, STATIC, OR FLUID):
10. GRAVITY:
11. INERTIA:
12. KINETIC ENERGY:
13. MASS and/or WEIGHT:
14. MOMENTUM:
15. NEWTON'S FIRST LAW OF MOTION:
16. NEWTON'S SECOND LAW OF MOTION:
17. NEWTON'S THIRD LAW OF MOTION:
18. NORMAL FORCE:
19. POSITIVE G's (G-FORCE):
20. POTENTIAL ENERGY (GRAVITATIONAL POTENTIAL ENERGY):
21. REACTION FORCE:
22. UPSTOPS (**MUST** EXPLAIN USING ONE OF **NEWTON'S LAWS**):
23. VELOCITY (or SPEED):
24. WORK:
25. Any other physics related concept that will help you in your presentation.
You should ask for approval first before using.