

8.2.1 Quiz Review

Which roller coaster has MORE kinetic energy and WHY???

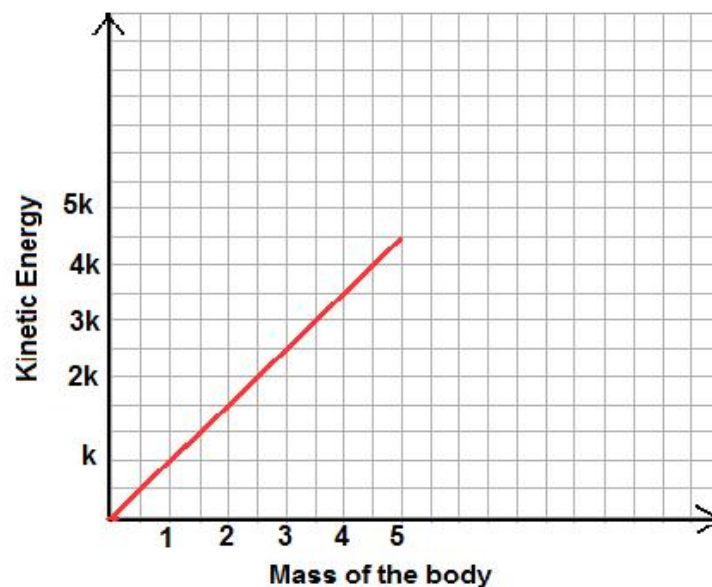
STATISTICS	WICKED	CANNIBAL
Vertical Height (m)	34 (110 ft)	63 (208 ft)
Speed (km/hr)	89 (55 m/hr)	110 (70 m/hr)
Capacity (riders/train)	8	12

Which skater has MORE kinetic energy and WHY???

What could the skaters do to INCREASE their kinetic energy?

TONY HAWK Height: 6 ft 3 in (1.91 m) Nickname(s): The Birdman Turned pro: 1982 Weight: 171 lb (78 kg) Specialty: Tricks, especially spins	RODNEY MULLEN Height: 5 ft 11 in (1.81 m) Nickname(s): Mutt, King Turned pro: 1980 Weight: 161 lb (73 kg) Specialty: Tricks, especially flips
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What happens to the kinetic energy when the mass increases?



Define KINETIC ENERGY:

Which has the MOST kinetic energy? And WHY???

- A car going 50 mph
- A semi- truck going 50 mph
- A motorcycle going 50 mph
- A cheetah running 50 mph

Which has the MOST kinetic energy? And WHY???

- A rabbit running 5 mph
- A dog running 5 mph
- An elephant running 5 mph
- A cat running 5 mph

Which has the MOST kinetic energy? And WHY???

- A person hiking 2 mph
- A person walking 3 mph
- A person running 8 mph
- A person walking 4 mph

Which has the MOST kinetic energy?

- A soccer ball rolling down the hill 8 mph
- A baseball rolling down the hill 8 mph
- A tennis ball rolling down the hill 8 mph
- A bowling ball rolling down the hill 8 mph