



COLLISIONS

1. What makes things happen? _____
2. At what point in a collision does energy transfer occur?

3. True or false: you can hold energy in your hand. _____
4. When one object runs into another and energy is transferred, we call that a...
a. explosion b. hit c. strike d. collision
5. True or false: when Dr. Jeff's mom collides with Izzy, they both fly backwards. _____
6. How many variables should be changed at a time in a fair test? _____
7. Fill in the blank using the word(s) **increases**, **decreases** or **stays the same**.
As an object's speed INCREASES, the energy it has to transfer _____.
As an object's weight INCREASES, the energy it has to transfer _____.
8. Where is the crumple zone in a car and what is its purpose?

9. How do plexiglass barriers keep people safe at a hockey game? Use the word "energy" in your answer.

10. In a collision some of the energy is transferred into (select all that apply)
 - a. sound
 - b. matter
 - c. heat
 - d. electricity