



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