

Name: _____ Date: _____

Force and Pressure

Q1. What happens when a charged plastic straw is brought near another uncharged plastic straw?

Ans. _____

Q2. Why does a plastic comb rubbed with dry hair attract tiny pieces of paper?

Ans. _____

Q3. What is meant by saying that force is due to interaction?

Ans. _____

Force and Pressure

Q1. What happens when a charged plastic straw is brought near another uncharged plastic straw?

Ans. A straw is said to have acquired electrostatic charge after it has been rubbed with a sheet of paper. Such a straw is an example of a charged body. A straw rubbed with paper attracts another straw but repels it if it has also been rubbed with a sheet of paper.

Q2. Why does a plastic comb rubbed with dry hair attract tiny pieces of paper?

Ans. When a plastic comb is rubbed in dry hair, the comb gets electric charges by friction. And when this electrically charged comb is brought near tiny pieces of paper, it exerts an electrostatic force of attraction on them. Due to this electrostatic force, the tiny pieces of paper move towards the comb and stick to it.

Q3. What is meant by saying that force is due to interaction?

Ans. Example: Suppose a man is standing behind a stationary car. The car will not move just due to his presence. Suppose the man now begins to push the car, that is, he applies a force on it. The car may begin to move in the direction of the applied force.

From the above example, we can infer that at least two objects must interact for a force to come into play.