

# **Impulse and Conservation of momentum, Conservation of momentum using third law, Applications and examples of conservation of momentum**

**CLASS-IX**

**SUBJECT : PHYSICS**

**CHAPTER NUMBER: 9**

**CHAPTER NAME : FORCE AND LAWS OF MOTION**

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**CHANGING YOUR TOMORROW**

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# Home Assignment

1. A 20 kg bullet can fire 10 bullets per second. Mass of each bullet 0.2 kg. The muzzle speed of the bullet is 150 m/s. What is the recoil velocity of the gun? How much force is required to hold the gun?
2. State and prove law of conservation of linear momentum.
3. A bomb explodes into several parts. Why these parts fly off in different directions.



**THANKING YOU**  
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