

➤ Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

➤ Objective(s):

- *Recognize the characteristics of elastic and inelastic collisions with regards to the motion of objects after collisions and the conservation of momentum and energy.*
- *Understand how the law of conservation of momentum applies to all collisions.*

➤ Notes:

During the video segment, use words, phrases, or drawings to take notes.

➤ Summary:

After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"

Answer the following.

1. What are the two types of collisions?

2. Define an elastic collision in your own words.

3. What quantities are conserved in elastic collisions?

4. In a collision, if two objects are moving in opposite directions, what does that mean for their momentum values?

5. Define an inelastic collision in your own words.

6. What quantities are conserved in inelastic collisions?

7. How does the final kinetic energy of the system in an inelastic collision compare to the initial kinetic energy?

8. How do the final velocities of the objects involved in an inelastic collision compare to each other?
