Physics 11

**Section 6.2: Impulse and Momentum**

Newton’s second law tells us something about momentum…

To change the momentum of something, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Example:** Luigi is sick of taking orders. He swings a 9 kg hammer at 16m/s at Mario’s face. As the hammer strikes Mario’s face, however, Mario’s cushy mustache brings the hammer to a stop in 0.25 s. What is the net force exerted on Mario’s mustache?

**Example:** Using the principle of impulse and momentum explain why it’s sometimes useful to “follow through” when you’re playing sports.