Ch 13-6: What is Newton’s 3rd Law of Motion? Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Basic Physical Science Notes 2018

Key Terms:

1. Action Force: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Reaction Force: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Together, action forces and reaction forces are called \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_.
4. The two forces in force pairs always act in \_\_\_\_\_\_\_\_\_\_\_ directions.
5. When you push on an object, the object pushes back with an \_\_\_\_\_\_\_\_\_\_ force.
6. The forces act on \_\_\_\_\_\_\_\_\_\_\_\_ objects.
7. Newton’s 3rd Law: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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EX:

Short Answer:

1. How are action and reaction forces different?
2. Describe how your feet hitting the ground while running is an example of Newton’s 3rd Law.
3. Most days I see Mr. Barnes in the hallway. When I do, we give each other high fives. Because we are skilled high fivers, the clap is loud and stings a bit. Explain why using Newton’s 3rd Law.
4. A long, long time ago, I shot a gun at my dad’s farm. I remember feeling a pain in my shoulder. Explain why using Newton’s 3rd Law.
5. While driving down the road, an unfortunate bug strikes the windshield of a bus. The bug hit the windshield, and the windshield hit the bug. Which of the two forces is greater: the force on the bug or the force on the bus? Explain.