

CHAPTER 7 Forces in Fluids

SECTION

1

Fluids and Pressure

BEFORE YOU READ

After you read this section, you should be able to answer these questions:

- What are fluids?
- What is atmospheric pressure?
- What is water pressure?
- What causes fluids to flow?

What Are Fluids?

You have something in common with a dog, a sea gull, and a dolphin. You and all these other animals spend a lifetime moving through fluids. A **fluid** is any material that can flow and that takes the shape of its container. Fluids have these properties because their particles can easily move past each other. Liquids and gases are fluids. 

Fluids produce pressure. **Pressure** is the force exerted on a given area. The motions of the particles in a fluid are what produce pressure. For example, when you pump up a bicycle tire, you push air into the tire. Air is made up of tiny particles that are always moving. When air particles bump into the inside surface of the tire, the particles produce a force on the tire. The force exerted on the area of the tire creates air pressure inside the tire.



The air particles inside the tire hit the walls of the tire with a force. This force produces a pressure inside the tire. The pressure keeps the tire inflated.

PRESSURE AND BUBBLES

Why are bubbles round? It's because fluids (such as the gas inside the bubbles) exert the same pressure in all directions. This gives the bubbles their round shape.

 STUDY TIP

Explain As you read this section, study each figure. In your notebook, describe what each figure tells you about pressure.

 READING CHECK

1. **Identify** What is a fluid?

TAKE A LOOK

2. **Define** What is pressure?

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