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10.3 Pressure

- On the microscopic level, pressure comes from collisions between atoms.
- Every surface can experience a force from the constant impact of trillions of atoms.
- This force is what we measure as pressure.





10.3 Pressure



35 pounds acts on every square inch If your car tires are inflated to 35 pounds per square inch (35 psi), then a force of 35 pounds acts on every square inch of area inside the tire.

What might happen if you over-inflate a tire?





	it real.							
10.3 Bernoulli's Principle								
Form of energy	Potential energy	Kinetic energy	Pressure energy	= Constant along any streamline in a fluid				
Variable	height	speed	pressure					
 Bernoulli's principle says the three variables of height, speed and pressure are related by energy conservation. 								

CPO Science 10.3 Three Variables and Bernoulli's Principle							
Form of energy	Potential energy	Kinetic energy	Pressure energy	= Constant along any streamline in a fluid			
Variable	height	speed	pressure				
 If one variable increases along a streamline, at least one of the other two must decrease. For example, if speed goes up, pressure goes down. 							

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