

Newton's Laws

Directions: Identify the following scenarios as Newton's 1st Law, Newton's 2nd, or Newton's 3rd Law.

1. A frog leaping upward off his lily pad is pulled downward by gravity and lands on another lily pad instead of continuing on in a straight line.
2. As the fuel in a rocket ignites, the force of the gas expansion and

8. Determine the volume of 1 mole of a gas at STP.

$$V = nRT/P = (1)(.0821)(273.15) / (1) = \mathbf{22.4L \text{ (standard molar volume)}}$$