## Elastic Collisionsale.co.uk Preview from Notes 22 Preview page 6 of 22

▶ One in which the total kinetic energy of the system after the collision is **equal** to the total kinetic energy before the collision. **No work** is done by nonconservative forces.

## Bernulli's Equation co.uk Preview from 19 of 22 Preview page

$$P_1 + \frac{1}{2}\rho v_1^2 + \rho g y_1 = P_2 + \frac{1}{2}\rho v_2^2 + \rho g y_2$$

$$\frac{1}{2}\rho v_1^2 = \rho g h$$

$$v_1 = \sqrt{2gh}$$

$$W_{\rm nc} = \left(\frac{1}{2}mv_1^2 + mgy_1\right) - \left(\frac{1}{2}mv_2^2 + mgy_2\right)$$

## Heat is encreable at a

► Heat is energy that flows from a higher-temperature object to a lower-temperature object because of a difference in temperatures.