The joule

The joule (J) is the modern scientific unit of energy. One joule is defined as the work done when a force of one newton moves through a distance of one metre. In other words:

1.0 joule = 1.0 newton x 1.0 metre

For example, if you lift a 100 N weight by 2.0 m, then you have done $100 \times 2.0 = 200 \text{ joules of work}$. The work you have done has increased the potential energy of the weight by exactly this amount.