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can answer this question by defining a new quantity known as the gibbs free energy  $g$  of the system which reflects the balance between these forces the gibbs free energy of a system at any moment in time is defined as the enthalpy of the system minus the potential and kinetic energy worksheet thomas k12 ga us Apr 12 2021 potential and kinetic energy worksheet kinetic energy  $ke = \frac{1}{2} \text{ mass} \times \text{velocity squared}$   $ke = \frac{1}{2} mv^2$  potential energy  $pe = \text{mass} \times \text{the acceleration due to gravity} \times \text{height}$   $pe = mgh$   $n = h$   $g = 9.8 \text{ m/s}^2$   $1 \text{ newton} = 1 \text{ kg} \cdot 1 \text{ m/s}^2$  or  $1 \text{ kgm/s}^2$  1 you serve a volley ball with a mass of 2 kg the ball leaves your hand at 30 m/s  
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