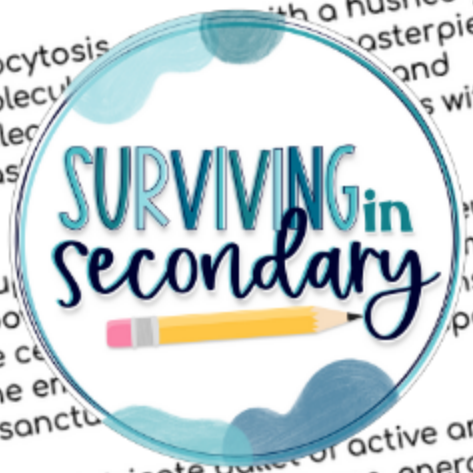
ACTIVE AND PASSIVE TRANSPORT CRYPTOGRAPH

Editable Reading Passage Included!

Once upon a time...or, really, as time continues on, within the bustling confines of a single cell, the building block of life, a remarkable dance of molecules is underway- orchestrated by the choreography of both active and passive transport.

In the quiet corner of the cell, passive transport takes place. Small molecules, like carbon dioxide and oxygen perform their elegant ballet of simple diffusion. With graceful moves, they twirl and swirl, effortlessly gliding through the cell membrane. Likewise, facilitated diffusion allows larger molecules to make their own enchanting entrance through protein corridors. These subtle, yet impactful performance showcases the mesmerizing principle of passive transport, as different substances move spontaneously from areas of high concentration to areas of low concentration, seeking a harmony and balance within the cell's delicate symphony.

Just across the way, a grand spectacle of osmosis is also taking place. Water molecules, like eager guests at the grand ball, flow through the cell membrane or aquaporin, ensuring that the cell's hydration remains in perfect balance. This enchanting display of passive transport is crucial to the cell's survival, as water waltz from areas of high concentration to areas of low concentration, eager to keep the order and equilibrium that sustains the cell.

On the far side, a dynamic duo of active transport, Endocytosis and Exocytosis, with a hushed yet vibrant pace about them. With a graceful swish, Endocytosis sweeps molecules masterpiece and encloses them in the embrace of the cell membrane, waiting for release. In anticipation, Exocytosis swirls with a flourish of energy and releases with final display, leaving the cell membrane.

Amidst the symphony of graceful moves, a sudden burst of energy erupts time for the grand finale – the active transport extravaganza. High above life. With a powerful flourish, it pumps sodium ions out of the cell, of concentration. This energetic display is the energy currency to maintain its inner sanctum. the intricate ballet of active and balance, energy,