

## The Only Thing that Stays the Same Is That Everything Changes...

Is it Physical or Chemical?

Physical	Chemical
<b>Definition:</b> A change in a substance that does not include a change in the identity of that substance	<b>Definition:</b> A change in which one or more substances are converted into different substances (Formula Change)
<p style="text-align: center;"><b>Examples:</b></p> <p style="text-align: center;">Bend (Ductile)</p> <p style="text-align: center;">Cut</p> <p style="text-align: center;">Break</p> <p style="text-align: center;">Color</p> <p style="text-align: center;">Phase Change</p> <p style="text-align: center;">Hammer into a sheet (malleable)</p> <p style="text-align: center;">Pull into a wire (Ductile)</p> <p style="text-align: center;">Mold into a specific form</p> <p style="text-align: center;">Dissolve In Water</p> <p style="text-align: center;">Flows Slowly (Viscosity)</p>	<p style="text-align: center;"><b>Examples:</b></p> <p style="text-align: center;">Formula Change</p> <ol style="list-style-type: none"> <li>1. Gives Off or Takes-Up Energy             <ul style="list-style-type: none"> <li>• endergonic takes up energy</li> <li>• exergonic gives off energy (becomes something new)</li> </ul> </li> <li>2. Change Color (becomes something new)</li> <li>3. Evolve Gases/Bubbles (becomes something new)</li> <li>4. Form a precipitate (becomes something new)</li> </ol> <p style="text-align: center;">Burn something</p>