

ENDOTHERMIC + EXOTHERMIC REACTIONS MOVIE

EXOTHERMIC REACTION	ENDOTHERMIC REACTION
<p>1. When heat is _____ to its surroundings.</p> <p>3. Makes surroundings warmer / colder (circle).</p> <p>5. Feels _____.</p> <p>7. Remember "exo" = _____</p> <p>9. So (not in movie) exothermic = external / internal (circle)</p> <p>HOT PACK:</p> <p>11. In the hot pack when you squeeze the small water pouch it bursts and _____ with the ammonium nitrate. _____ breaks the chemicals apart. The chemicals then _____ to make something new. These new chemicals being created gives off so much heat it makes it's surroundings _____.</p>	<p>2. When heat is _____ from it's surroundings.</p> <p>4. Makes surroundings warmer / colder (circle)</p> <p>6. Feels _____.</p> <p>8. Remember "endo" = _____</p> <p>10. So (not in movie) endothermic = external / internal (circle)</p> <p>COLD PACK:</p> <p>12. In the cold pack there is calcium ammonium nitrate and a smaller pouch of water. When you squeeze the pack the _____ burst mixing the two _____ together.</p> <p>13. These two chemicals actually require a lot of _____ to break. They need to take energy from their _____ to break the chemical bonds. When the chemicals finally recombine they don't give off as much energy as what it took to _____ them apart.</p>

A LITTLE MORE ON NEXT PAGE...

EXOTHERMIC REACTION

14. Exothermic reactions _____
heat because of the _____ of
new substances.

ENDOTHERMIC REACTION

15. Endothermic reactions _____ heat
because they need SO much energy to
_____ the substance (chemical bonds).