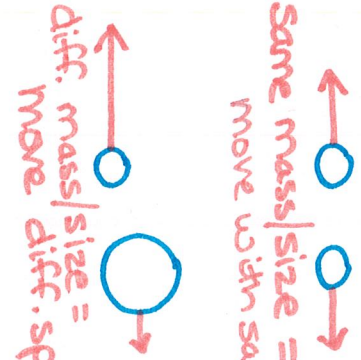


# Unit 2 - Inv. 1 Summary Chart

Unit 2 Question: How does a small spark trigger a huge explosion?

Inv. 1 Question: What is happening when a spark occurs?

What did we observe?	What have we figured out?	How does this help us answer our investigation question?	Our model
<p>Oct. 1 - Your fingers can start a fire with a spark.</p>	<p>• VDE model doesn't explain how a fire starts. • Diff. forms of energy help explain</p>	<p>Introduced: Kinetic, potential, thermal &amp; electrical</p>	<p>n/a</p>
<p>Oct. 2 - Collisions transfer energy</p>	<p>• Mechanical systems transform KE <math>\rightleftharpoons</math> PE • Kinetic energy • low mass = low KE • low speed = low KE • Potential energy • stored not moving • Thermal energy • Friction between moving objects</p>	<p>- Diff. forms of energy &amp; how they transform during collisions</p>	<p>Same mass/size = lots of motion = diff. mass/size = more diff. speeds.</p> 
<p>Oct. 1.3 - Particles have kinetic energy</p>	<p>- Temperature affects KE of particles • high temp = high KE • low temp = low KE - particles transfer energy when they collide</p>	<p>- Shows how particles transfer energy with collisions</p>	<p>Warm - lots of motion = Cold - little motion = lots of motion = little KE</p> 