

Physical and Chemical change objectives:

#1-3 Chemical changes create new substances with new properties (differentiation between physical and chemical processes):

- > I can identify phase changes and/or physical manipulations as physical processes.
- > I can identify indicators of chemical processes.

What is a chemical reaction?

Physical change vs. Chemical change

No new substance formed new substance formed

4 indications

- color change
- precipitate
solid from chem. reaction
- energy change
- gas formation



- bonds are broken and new bonds are made

examples(what are the indicators?):

acid corrosion <http://www.youtube.com/watch?v=X8IFPpNL8Po>

$\text{Hg}(\text{SCN})_2$ <http://www.youtube.com/watch?v=dX7xeF-ywxc&feature=related>

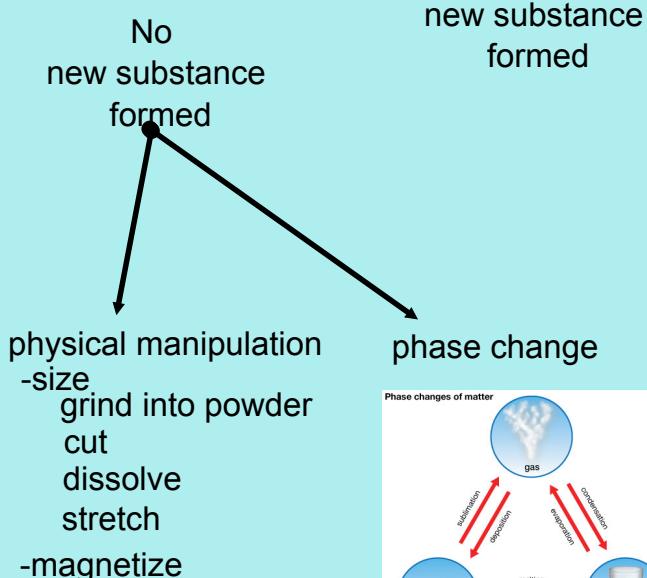
growth <http://www.youtube.com/watch?v=xCTepKr6ssw>

decay http://www.youtube.com/watch?v=C6sFP_7Vezg
life processes

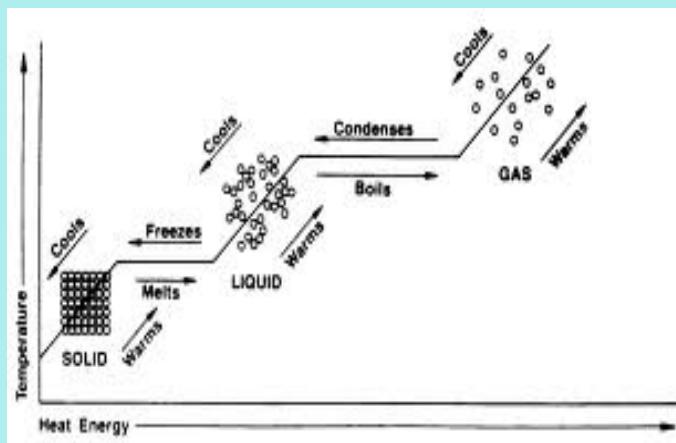
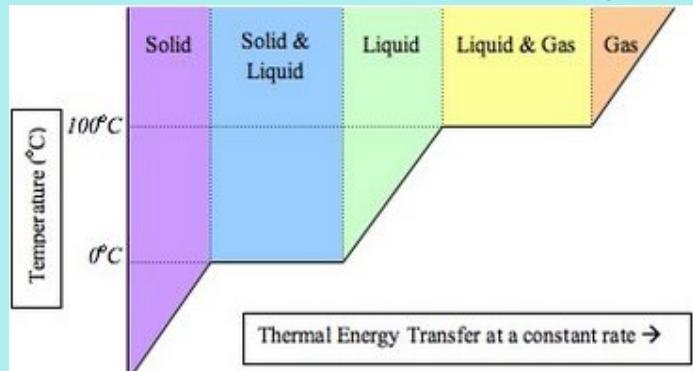
<http://www.youtube.com/watch?v=8TPnns-5UxA>

Honors Physical vs. Chemical change.notebook

Physical change vs. Chemical change

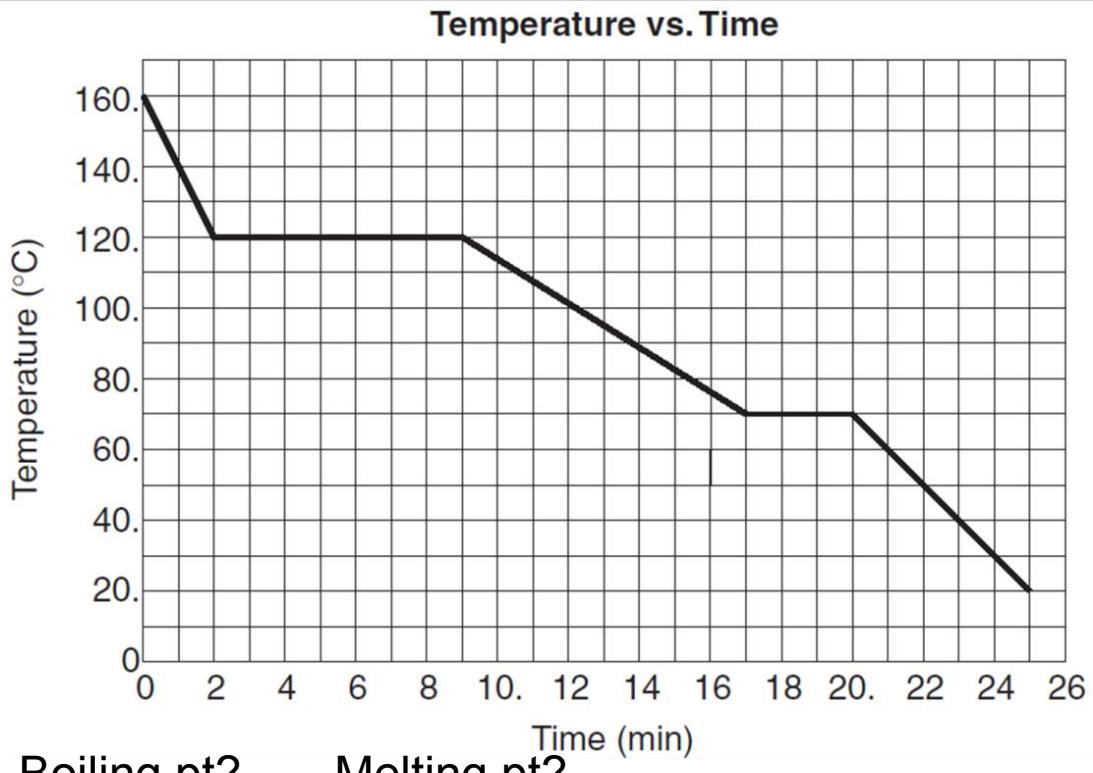


phase change diagram



Jul 17-10:54 AM

<u>physical change</u>	<u>chemical change</u>
<p>crumbling burn melt make new substance color change occurs rust form a precipitate</p> <p>condense solidify</p>	<p>cut baking corrode tarnish produce a new solid react produce gas</p> <p>evaporate fill with air (inflation) grow freeze change in energy decay cooking</p> <p>dissolve digestion</p>



Boiling pt?

Melting pt?

At what temperature range is the substance a solid?

liquid?

gas?

Name for phase change from solid to gas?

gas to liquid?

Attachments

watch.webloc