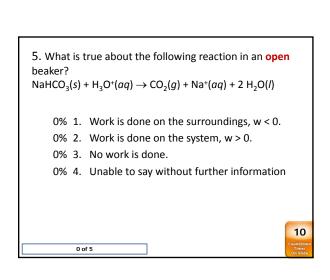
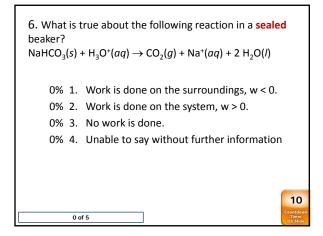


3. Compared to the cooling when an endothermic reaction takes place in an open container, when the reaction takes placed in a sealed, rigid container, ...

0% 1. the cooling will be greater
0% 2. the cooling will be the same
0% 3. the cooling will be smaller
0% 4. More information needed

4. What is true about the following reaction?
NaHCO<sub>3</sub>(s) + H<sub>3</sub>O<sup>+</sup>(aq) → CO<sub>2</sub>(g) + Na<sup>+</sup>(aq) + 2 H<sub>2</sub>O(l)
0% 1. Should be exothermic
0% 2. Should be endothermic
0% 3. Unable to say without further information





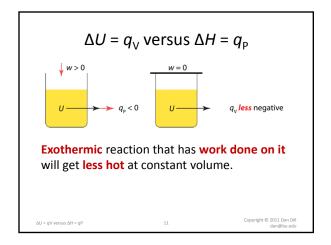
7. If an aqueous reaction is exothermic, as the reaction proceeds ...

0% 1. The solution should get colder
0% 2. The solution should get warmer
0% 3. There should be no change in temperature
0% 4. Unable to say without further information

8. If an aqueous reaction is endothermic, as the reaction proceeds ...

0% 1. The solution should get colder
0% 2. The solution should get warmer
0% 3. There should be no change in temperature
0% 4. Unable to say without further information

9. If a reaction is exothermic, and work is done on it (w > 0), typically because a gas is consumed as the reaction proceeds, ...
0% 1. the reaction solution should get less warm than if no work were done on it.
0% 2. the reaction solution should get warmer than if no work were done on it.
0% 3. there should be no change in warming compared with the w = 0 case.
0% 4. Unable to say without further information



10. If a reaction is endothermic, and does work on the surroundings (w < 0), typically because a gas is formed as the reaction proceeds, ...

0% 1. the reaction solution should get less cold than if no work were done on it.

0% 2. the reaction solution should get colder than if no work were done on it.

0% 3. there should be no change in cooling compared with the w = 0 case.

0% 4. Unable to say without further information

