

Name: _____

Discovery Techbook (Chemical Change/Acids and Bases)

_____ Acids and Bases in Our Lives (1:11)

- a. Name one acid and one base you use or see in everyday life.

_____ Balancing Equations: Forming Water (3:03)

- a. Why is $\text{H}_2 + \text{O}_2 = \text{H}_2\text{O}$ not balanced?

- b. Is $2\text{H}_2 + \text{O}_2 = 2\text{H}_2\text{O}$ a balanced equation? Why or Why not?

_____ Chemical Equations (1:53)

- a. What does a chemical equation represent?
- b. What is the chemical equation for the reaction that happens between Cu and CO_2 ?
- c. Are atoms destroyed in a chemical reaction?
- d. What law says you cannot lose or gain atoms in a chemical reaction?

Chemical Reactions and Equations Video (1:05)

- a. What are chemical reactions?

- b. What are the reactants in the formation of water?

- c. What are the products in the formation of water?

Compounds: Acids and Bases (2:18)

- a. What type of taste do acids have? Bases?

- b. Are acids or bases more reactive?

- c. What gas does an acid produce when it reacts with a metal?

Exploding Gummy Bear (1:30)

- a. What mixed with oxygen and burnt in the chemical reaction of the gummy bear?

Mixing Acids and Bases -Exploration

- a. What are the two products produced when you mix the reactants HCl and Ca(OH)_2 ?

Properties of Acids and Bases (2:59)

- a. Give at least 2 properties of an acid.

- b. Give at least 2 properties of a base.

Rust as a chemical reaction - reading

- a. In the reading find one example of a chemical change and one example of a physical change.

Shopping Cart Rocket (1:12)

- a. What does he use for rocket fuel?

The Chemistry of Fire Video (3:13)

- a. What are the three ingredients that produce a fire?

 Traits of Chemical Reactions Video (1:47)

- a. What are reactants?

- b. What are products?

- c. What do you form when you mix rice with the candy?