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Money Unit
Lesson 4: Counting Money and Making Change
Thursday, April 16, 2009

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Grade Level: 3-4

Integrated Disciplines: Reading, Technology

NE Standards:
 4.1.5 By the end of fourth grade, students will make change and count out in amounts up to \$20.00.

Objectives:
 Students will demonstrate counting money and making change up to \$20.00 by completing online practice drills and paper worksheets.

Assessment:
 Observe online practice drills; grade worksheets for 80% accuracy.

Materials:
 Computers
 Interactive website on making change
 Pre-made worksheets on counting money
 Pencils
 Book: *Tightwad Tod*

Procedures

Anticipatory Set:
 Teacher will read the book *Tightwad Tod*. Teacher will facilitate "making change" activities in the back of the book with the class.

Learning Activities:
Teacher:
 Explain process of moving through worksheets at own pace.
 Pass out worksheets; encourage students to work as quickly as possible.
 Monitor progress; move to students to online sites as necessary.

Review
 In general a property describes something and a change is actually happening, changes usually end with "ing".

A physical property can be detected with the 5 senses or measured.

A physical change is a change in a physical property, but does not change the identity of the substance, no new substance is created.

A chemical property describes how a substance will react.

A chemical change happens when the substance reacts with something else and makes a new substance, there is a change in identity.

Physical Properties

Chemical Properties

- _____ 1. flammable
- _____ 2. mixing
- _____ 3. tarnishing
- _____ 4. combustible
- _____ 5. 88 degrees
- _____ 6. bread molding
- _____ 7. molding clay
- _____ 8. melting
- _____ 9. density
- _____ 10. rotting
- _____ 11. rusting
- _____ 12. freezing
- _____ 13. cutting

Physical Changes

Chemical Changes



- _____ 14. sour tasting
- _____ 15. milk souring
- _____ 16 decomposing
- _____ 17. solid phase
- _____ 18. reacting
- _____ 19. 456 grams
- _____ 20. fragile
- _____ 21. bitter
- _____ 22. purple
- _____ 23. bleaching
- _____ 24. evaporating
- _____ 25. 432 ml



Name: Melissa Romero

Date: 02/03/2021

Student Exploration: Chemical Changes

Vocabulary: acid, base, catalyst, chemical change, coefficient, conservation of matter, decomposition, dissolve, double replacement, endothermic, exothermic, indicator, ion, physical change, product, reactant, single replacement, subscript, synthesis

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)



1. A student mixes baking soda and vinegar in a glass. The results are shown at left. Do you think any new substances are being created in this mixture? If so, how do you know?

I believe the substance that was created in the mixture is carbon dioxide. This is because when you combine baking soda and vinegar together, it creates a gas (carbon dioxide).

2. Suppose this was done on top of a balance. Do you think the mass would change as the reaction proceeded? The mass will stay the same but if the gas is allowed to escape than the mass will be less.

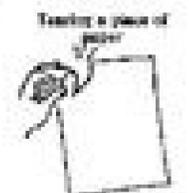
3. What do you think would happen to the mass if the reaction took place inside a sealed plastic bag? The mass would stay the same because it is concealed.

Gizmo Warm-up
 A **chemical change** (or chemical reaction) occurs when one or more substances, called **reactants**, are transformed into different substances, or **products**. In the *Chemical Changes* Gizmo, you will look for evidence of chemical changes by looking at changes you can see, touch, or smell.



Physical or Chemical Change?

Directions: Decide whether the following pictures represent a physical or chemical change by circling the appropriate letter.

1.  P or C	2.  P or C	3.  P or C
4.  P or C	5.  P or C	6.  P or C
7.  P or C	8.  P or C	9.  P or C

Mrs. Moor
Chemistry

Name: _____ KEY _____
Date: _____ Period _____

Physical Vs. Chemical Properties

A physical property is observed with the senses and can be determined without destroying the object. For example, color, shape, mass, length and odor are all examples of physical properties.

A chemical property indicates how a substance reacts with something else. The original substance is fundamentally changed in observing a chemical property. For example, the ability of iron to rust is a chemical property. The iron has reacted with oxygen, and the original iron metal is changed. It now exists as iron(III) oxide, a different substance with a different formula. $4Fe + 3O_2 \rightarrow 2Fe_2O_3$

Classify the following properties as either chemical or physical by putting a check in the appropriate column.

	Physical Property	Chemical Property
1. blue color	X	
2. density	X	
3. flammability		X
4. solubility	X	
5. reacts with acid to form H_2		X
6. supports combustion		X
7. volatile	X	
8. melting point	X	
9. reacts with water to form a gas		X
10. reacts with a base to form water		X
11. hardness	X	
12. boiling point	X	
13. can neutralize a base		X
14. luster	X	
15. conductivity	X	

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