

7th grade Week 6 notes

Matter Intro

7th Anchor Questions Week 6 (Oct. 6-10)
Questions Due complete: Friday, 10.10
Assessment: Friday, 10.10

- 1. What does mass measure? What is the base unit of mass?**
- 2. What is matter?**
- 3. Types of matter: definitions and examples**
- 4. List five examples of compounds**
- 5. List five examples of mixtures**
- 6. What are the three types of matter? Explain each one briefly with an example**
- 7. How are elements and compounds different?**

Vocabulary

Mass

Compound

Mixture

Element

Gram

Milligram

Kilogram

Atom

Molecules

Name

Hour

Matter Inquiry: Elements, Compounds & Mixtures

Fact:

- Mixtures can be "separated" and many times you can see the different parts (Example: raisin bran)
- Compounds- made up of molecules made up of two or more elements (Example: H₂O is made up of two atoms of Hydrogen and one atom of Oxygen)
- Elements- made of **ATOMS** of the same element. There are approximately 120

Take the names below and write them in the box below that you think they go in....

brass	hydrogen peroxide	salad dressing	sulfur	Oxygen	paper
neon	hydrogen	Granite	soda pop	nitrogen	Salt
Water vapor	cake	carbon	propane	air	sugar
wax	vitamin C	iron	milk	carbon dioxide	Cotton
water	Vinegar	wood	plastic	silver	Chocolate chip cookie

Element**silver****hydrogen****Oxygen****iron****sulfur****carbon****neon****nitrogen****Compound****hydrogen peroxide****carbon dioxide****sugar****Vinegar****propane****vitamin C****water****air****wood****Cotton****wax****plastic****Salt****paper****Water vapor****Mixture****salad dressing****Granite****milk****soda pop****Chocolate chip cookie****cake****brass**

Listening 10.06.14



Sounds Like

- **Silence**
- **Encouraging speaking- “ok”, “I understand”**
- **Asking questions about what is being said....**

C-notes

Looks Like

- **Eyes on the speaker**
- **Body: sitting up, leaning forward**
- **Nodding**
- **Not distracted by other activities: looking at phone, notebook, writing**

C-notes

Mass 10.06.14

- Mass is the measurement of the amount of MATTER an object has
- Example: a truck has more MATTER than a paper clip

C-notes

Mass 10.06.14

- Units used:
- The GRAM is the base unit of matter (this is about the mass equal to one small paper clip)
- We will measure in grams but

C-notes

C-notes

Mass 10.06.14

- Other units used are-
- Milligram: is $1/1000^{\text{th}}$ of a gram (used to measure medications usually)
- Kilogram: is 1000 grams (used to measure larger things: people, foods, etc.)

C-notes

C-notes

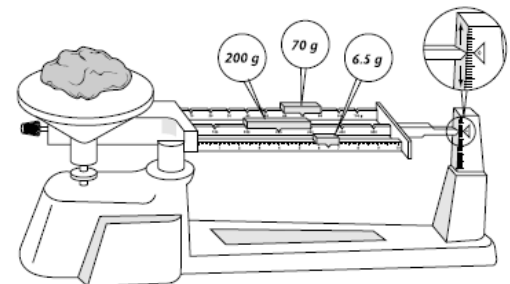
Mass 10.06.14

- Tool:
- Triple Beam Balance

C-notes

Assignment: Mass Practice

- Go to the triple beam balances and record the following:
 1. Mass of five pennies _____
 2. Mass of cup of 50 mL of water _____
 3. Mass of cup of 75 mL of water _____
 4. Mass of object at the table (battery or calculator) _____



C-notes

What's the Matter?

- **Matter is....**
- **Anything that takes up space (VOLUME) AND has “mass”**
- **Examples: water, oxygen, air, car, milk, etc.**

What's the Matter?

- **All matter exists in one of these “states”:**
- **Liquid**
- **Solid**
- **Gas**
- **Plasma (basically a gas that is super heated)- most matter in the universe is plasma...think STARS**

C-notes

What's the Matter?

- **All matter CAN be measured...**
- **Length/Distance- how long or how far away**
- **Volume- how much space it takes up**
- **Mass- how much “stuff” is the matter made up of...**



Foldable

Panel 1

**Matter- anything that
has mass and takes up
space**

**Examples: bacteria,
horse, air, water,
oxygen**

Foldable

Panel 2

States of Matter

There are 4 states:

1- Solid- has a definite shape

2- Liquid- takes the shape of the container

3- Gas- takes the shape and volume of the container

4- Plasma- superheated gas. It glows.....



Foldable

Panel 3

Types of Matter

**a) Elements- made up of ATOMS
that are the same**

Examples:

**Oxygen, iron, hydrogen, helium,
gold, copper, silver**



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Panel 4

Types of Matter

b) Compounds- matter made up of different atoms that are “connected” to make up molecules

Examples:

Salt, water, carbon dioxide, alcohol, oil



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Panel 5

Types of Matter

**c) Mixtures- atoms and molecules
(compounds) mixed
together...they can be separated
easily**

Examples:

**Chocolate chip cookie, salt water,
salad dressing**