Notes on Matter

(just the underlined words)

By Ms Toal

Matter

- The name of this unit is ____
- What is matter?

- Some matter is easy to see, like ____
- Some matter is not easy to see, like ____

Matter

- Anything that has mass and takes up space
- · Pencil, tree

Air, gases,

Describing matter

 What are the four properties of matter?

- Mass
- Weight
- Volume
- Density

(just the underlined words)

• <u>MASS</u>

- mass is the amount of matter in an object.
- Everything in the Universe that has mass is affected by gravity.

Just the underlined words

- WEIGHT is the measure of the gravitational pull on an object.
 - Weight = MASS X GRAVITY
 - The gravitational force exerted on Earth is about the same everywhere on Earth, so you would WEIGH the same around the world.

Just the underlined words

• VOLUME

- is the amount of space that an object takes up or occupies.
- An object can be solid, liquid, or a gas.
- What are some examples of a gas?

There are two ways to find volume:

Directly



· Indirectly



• use a ruler to find (LXWXH) CM3

 use a graduated cylinder and measure how much water is displaced.

ml

(also known as specific gravity)

• DENSITY

- is the amount of matter (mass) in a given space (volume).
- Can you think of two things that have two different densities?

Properties and measurements

Mass

- g (grams),
- kg (kilogram)
- mg (milligram)

Weight

(mass X gravity) = g, kg

· Volume

- cm³
- ml (milliliter),
- L (liter)

Density

- g/ml
- g/cm³