

THE METRIC SYSTEM OF MEASUREMENT:

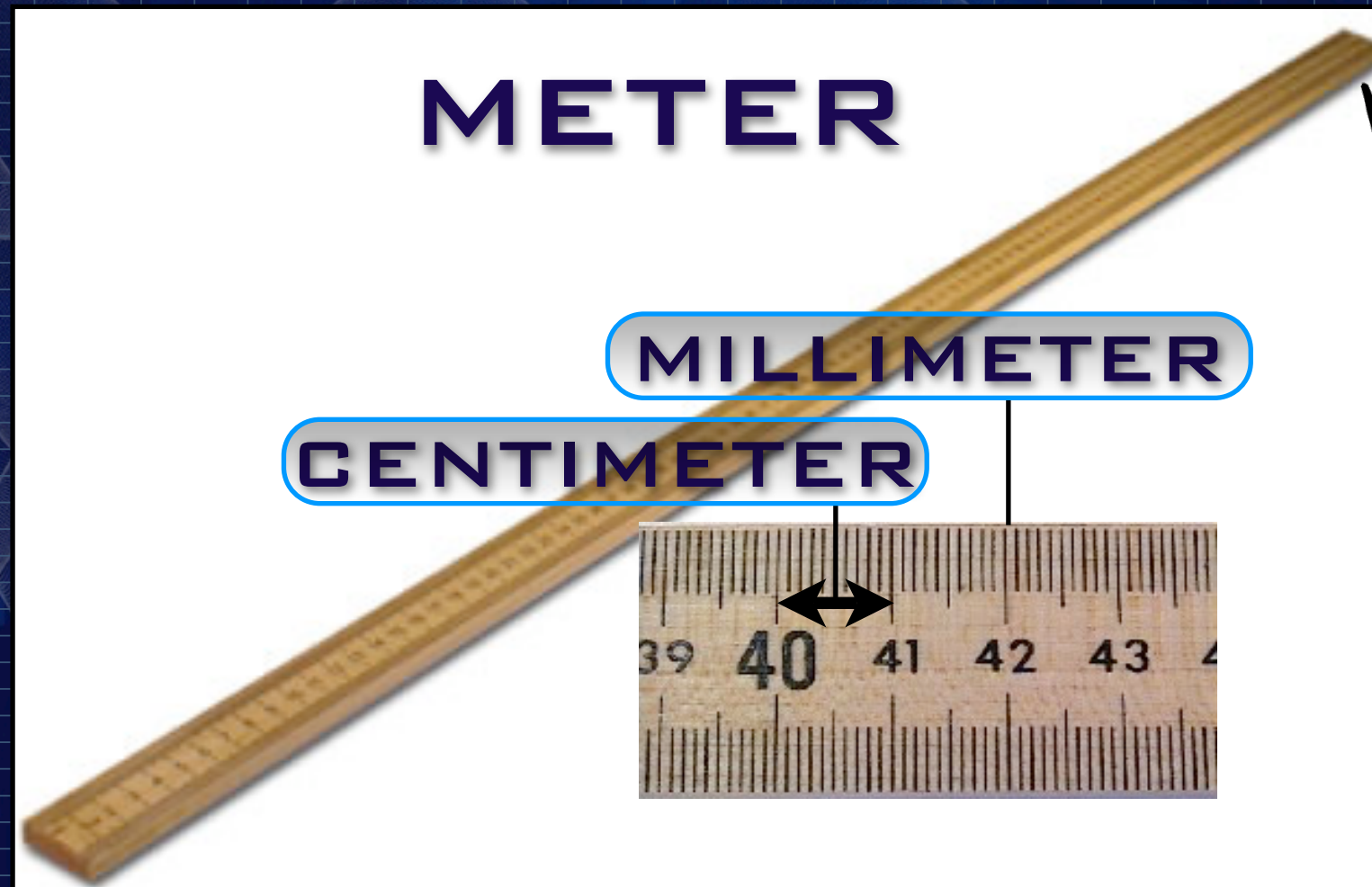
**METERS,
LITERS &
KILOGRAMS**

D. GILLILAND
SARASOTA HIGH

METRIC PREFIXES

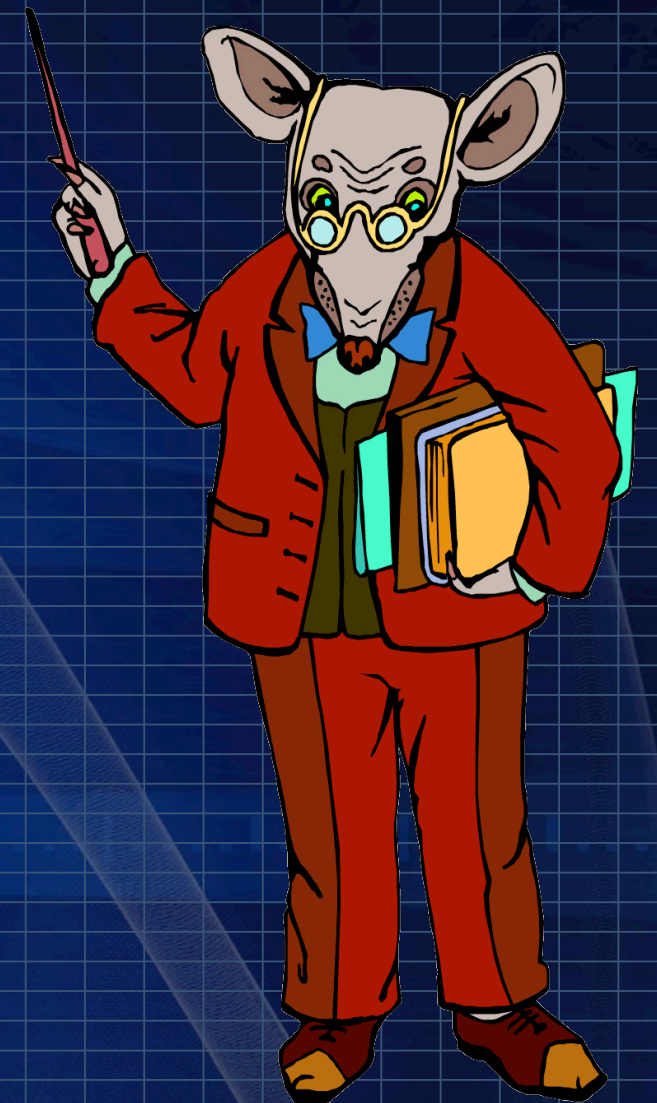
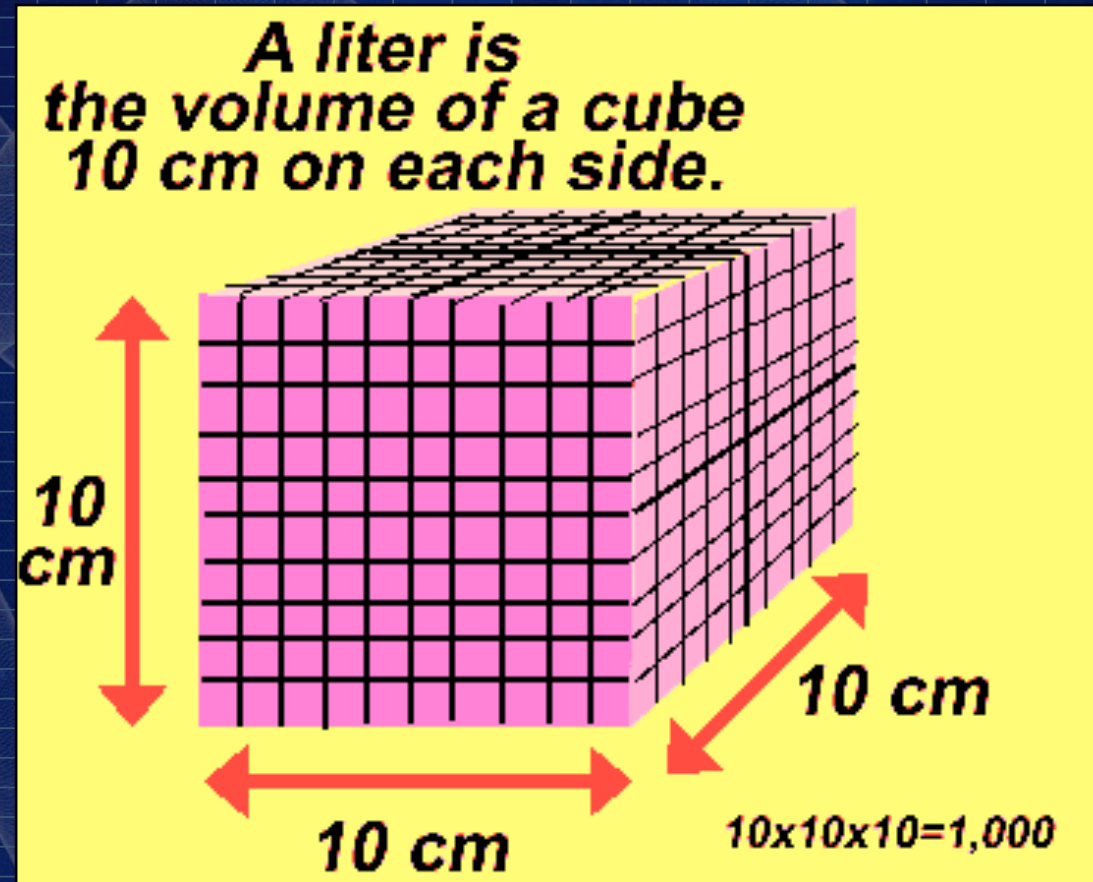
| PREFIX | SYMBOL | MEANING |
|--------|--------|-------------------------------|
| GIGA- | G | 1 BILLION (1,000,000,000) |
| MEGA- | M | 1 MILLION (1,000,000) |
| KILO- | k | 1 THOUSAND (1,000) |
| HECTO- | h | 1 HUNDRED (100) |
| DEKA- | da | TEN (10) |
| DECI- | d | ONE-TENTH (0.1) |
| CENTI | c | ONE-HUNDREDTH (0.01) |
| MILLI- | m | ONE-THOUSANDTH (0.001) |
| MICRO- | u | ONE-MILLIONTH (0.000,001) |
| NANO | n | ONE-BILLIONTH (0.000,000,001) |

MEASURING DISTANCE: THE METER



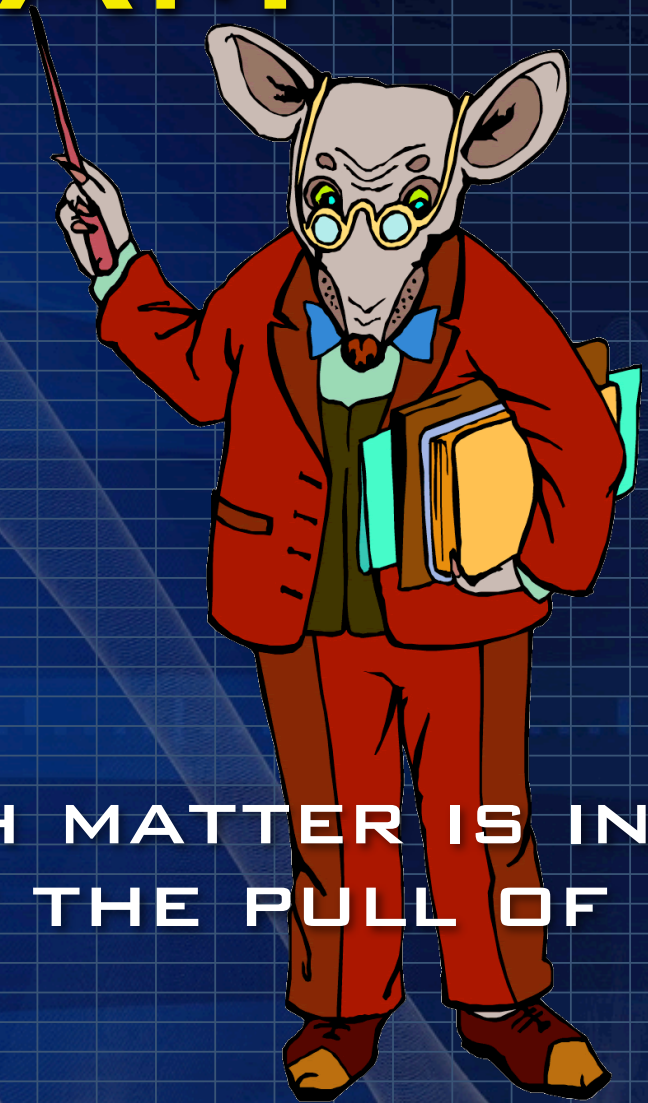
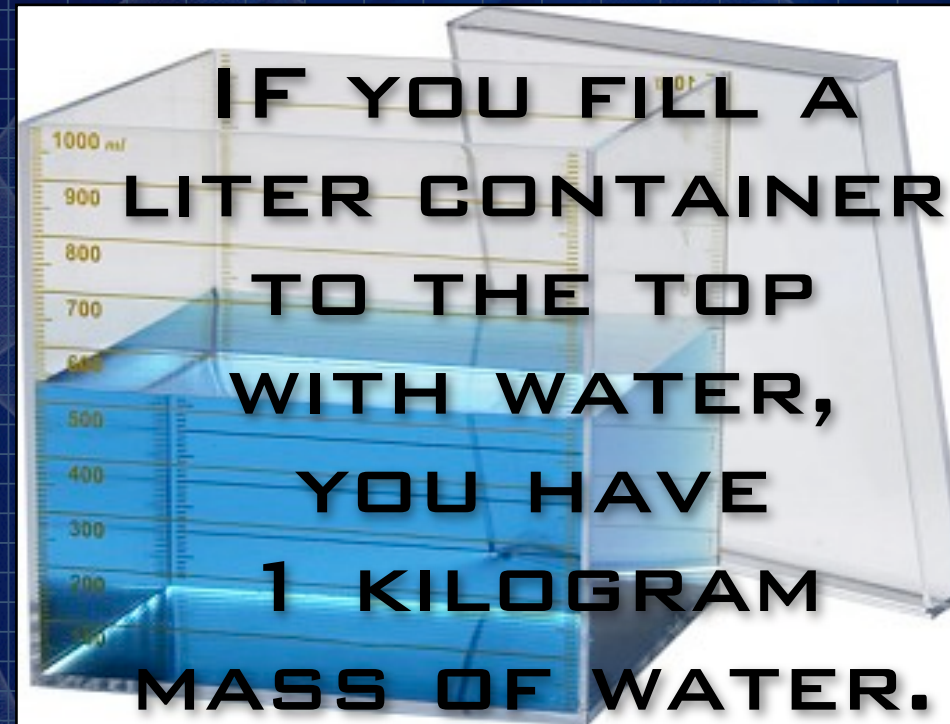
- ▶ DISTANCE IS HOW FAR APART OBJECTS ARE.
- ▶ A METER IS 1/10,000,000TH THE DISTANCE FROM THE NORTH POLE TO THE EQUATOR.
- ▶ 1 METER = 100 CENTIMETERS = 1000 MILLIMETERS
- ▶ 1 KILOMETER = 1000 METERS = 0.6 MILES

MEASURING VOLUME: THE LITER



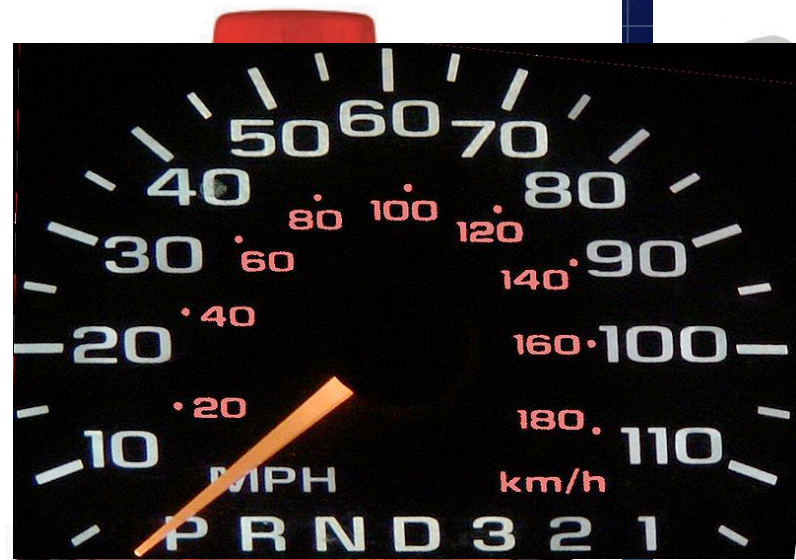
- ▶ VOLUME IS THE AMOUNT OF SPACE AN OBJECT TAKES UP.
- ▶ A LITER IS 10 CM X 10 CM X 10 CM (1000 CM CUBED).
- ▶ 1 LITER = 1000 CUBIC CENTIMERS = 1000 MILLILITERS.
- ▶ A LITER IS A LITTLE MORE THAN ONE QUART.
- ▶ VOLUME IS 3D SO IT IS DIFFICULT TO ESTIMATE.

MEASURING MASS: THE KILOGRAM



- ▶ MASS IS THE MEASURE OF HOW MUCH MATTER IS IN AN OBJECT. WEIGHT IS A MEASURE OF THE PULL OF GRAVITY.
- ▶ IF YOU TAKE A LITER AND FILL IT WITH PURE WATER, THE MASS OF THE WATER IS ONE KILOGRAM.
- ▶ THE FRENCH USED WATER BECAUSE IT IS THE MOST COMMON SUBSTANCE ON THE FACE OF THE EARTH.
- ▶ ONE CUBIC CENTIMETER OF WATER (ONE MILLILITER) HAS THE MASS OF ONE GRAM.

METRICS IS ALREADY HERE!



Nutrition Facts

Serving Size 1 ounce Servings in bag 4

Amount Per Serving

Calories 155 Calories from Fat 93

% Daily

| | |
|-------------------------------|----|
| Total Fat 11g | |
| Saturated Fat | 3g |
| Trans Fat | |
| Cholesterol 9mg | |
| Sodium 148mg | |
| Total Carbohydrate 14g | |
| Dietary Fiber | 1g |
| Sugars | 1g |
| Protein 2g | |

| | | | | |
|-----------|----|---|-----------|-----|
| Vitamin A | 0% | • | Vitamin C | --- |
| Calcium | 1% | • | Iron | 3% |

NEW GY6 150CC ATV



* Percent Daily Values are based on a 2,000 calorie diet. Your daily values may be higher or lower depending on your calorie needs.

METRICS IN A NUTSHELL

| PREFIX | BASIC UNIT |
|----------------|------------------|
| KILO- (1000) | METER (DISTANCE) |
| CENTI- (0.01) | LITER (VOLUME) |
| MILLI- (0.001) | KILOGRAM (MASS) |

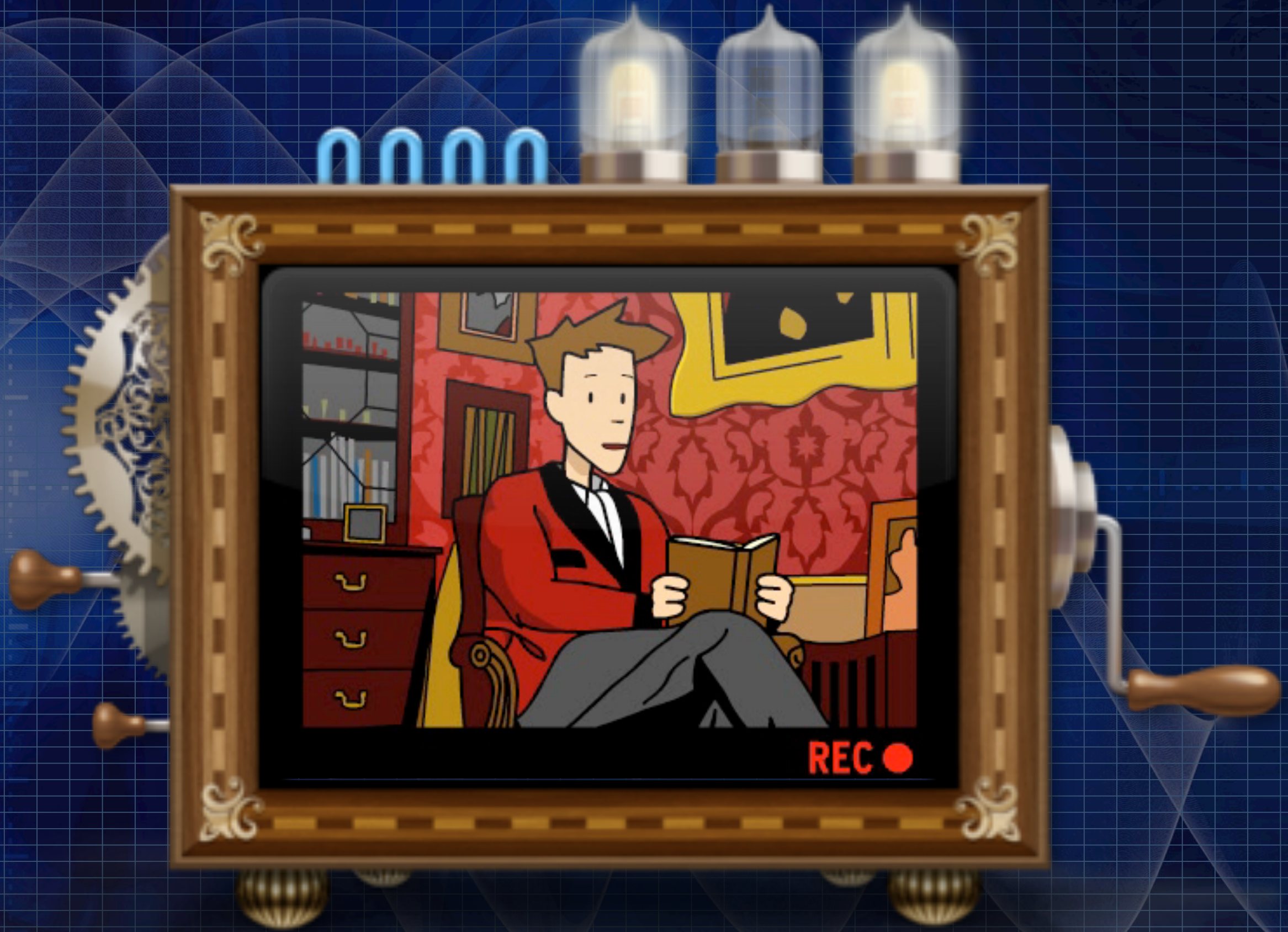
THESE PREFIXES AND BASIC UNITS
CAN FORM THE 12 MEASUREMENTS:

| | | | |
|-----------|-------|------------|------------|
| KILOMETER | METER | CENTIMETER | MILLIMETER |
| KILOLITER | LITER | CENTILITER | MILLILITER |
| KILOGRAM | GRAM | CENTIGRAM | MILLIGRAM |

BIG

SMALL

A TALE OF TWO MEASUREMENTS



METRIC JOKES

Q: WHAT DO YOU HAVE WHEN YOU
THROW A CARD INTO A STACK OF
NINE CARDS?



A: A DEKACARDS

Q: WHAT FAMOUS BOOK HAD
2000 BIRDS IN IT?



A: TWO KILOMOCKINGBIRD

Q: WHAT DID THE METRIC MARTIAN
SAY WHEN HE LANDED ON EARTH?



A: TAKE ME TO YOUR LITER.

SO... HOW DID YOU LIKE MR.
G'S METRIC JOKES?

ANY QUESTIONS?

