METRIC DEMONSTRATION

Easy to learn, easy to remember;
Look for patterns; Our brain likes patterns; Look for the logic of metric.

A. Basic unit of length (and the entire metric system): ________(__)
   ...a little bit ______ than a _______

   1000 meters = 1 _____________ (___)
   ...a little bit ______ than ________

   1/100th of a dollar is a ______(not "penny")
   ...so 1/100th of a meter must be 1 _____________ (___)

   ...and so there must be ______ cm in 1 m

   How many numbered marks are on a meter? ______
   Therefore each numbered mark must be a _____________

   Each cm is divided into ______ little spaces (tiniest marks),
   ...so how many little spaces per meter? ______
   If there are 1000 little spaces in the meter, each space must be 1/1000th
   of a meter. 1/1000th of something is a milli-something, so each little
   space must be called a...
   ______________________________ (____)

B. This is a cube, 1 cm on each side, so it can be called a
   cubic ________________ (_____) or (______)

   DEFINITION: 1000 cubic centimeters = 1 liter (l), (basic unit of volume)
   When exactly one liter of green water is poured into a bottle which holds only one
   ________, a little bit of the water will spill over, indicating that a liter is a
   little bit ______ than a ________

   What would 1/1000th of a liter be called? __________________(___)
   Since a liter = 1000 cm$^3$, and it also = 1000 ml, what does 1 cm$^3$ equal?_____

C. DEFINITION: 1 ml of water weighs 1 gram (g) (basic unit of mass)
   This is about what a __________________________ weighs.
   What is 1000 grams called? __________________(____)
   A kilogram is a little bit ______ than ____________

Each Metric unit is a bit ______ than the closest English Equivalent, so Metric is __________!
METRIC DEMONSTRATION KEY

Easy to learn, easy to remember; Look for patterns; Our brain likes patterns; Look for the logic of metric.

A. Basic unit of length (and the entire metric system): meter (m)
   ...a little bit more than a yard
   1000 meters = 1 kilometer (km)
   ...a little bit more than 1/2 mile
   1/100th of a dollar is a cent (not "penny")
   ...so 1/100th of a meter must be 1 centimeter (cm)
   ...and so there must be 100 cm in 1 m
   How many numbered marks are on a meter? 100
   Therefore each numbered mark must be a centimeter
   Each cm is divided into 10 little spaces (tiniest marks),
   ...so how many little spaces per meter? 1000 (10 x 100)
   If there are 1000 little spaces in the meter, each space must be 1/1000th of a meter. 1/1000th of something is a milli-something, so each little space must be called a millimeter (mm)

B. This is a cube, 1 cm on each side, so it can be called a cubic centimeter (cc) or (cm$^3$)
   DEFINITION: 1000 cubic centimeters = 1 liter (l), (basic unit of volume)
   When exactly one liter of green water is poured into a bottle which holds only one quart, a little bit of the water will spill over, indicating that a liter is a little bit more than a quart
   What would 1/1000th of a liter be called? milliliter (ml)
   Since a liter = 1000 cm$^3$, and it also = 1000 ml, what does 1 cm$^3$ equal? 1 ml

C. DEFINITION: 1 ml of water weighs 1 gram (g) (basic unit of mass)
   This is about what a paperclip weighs.
   What is 1000 grams called? kilogram (kg)
   A kilogram is a little bit more than 2 pounds of butter
   Each Metric unit is a bit more than the closest English Equivalent, so Metric is BETTER!