

Metric conversions

636/584-6688

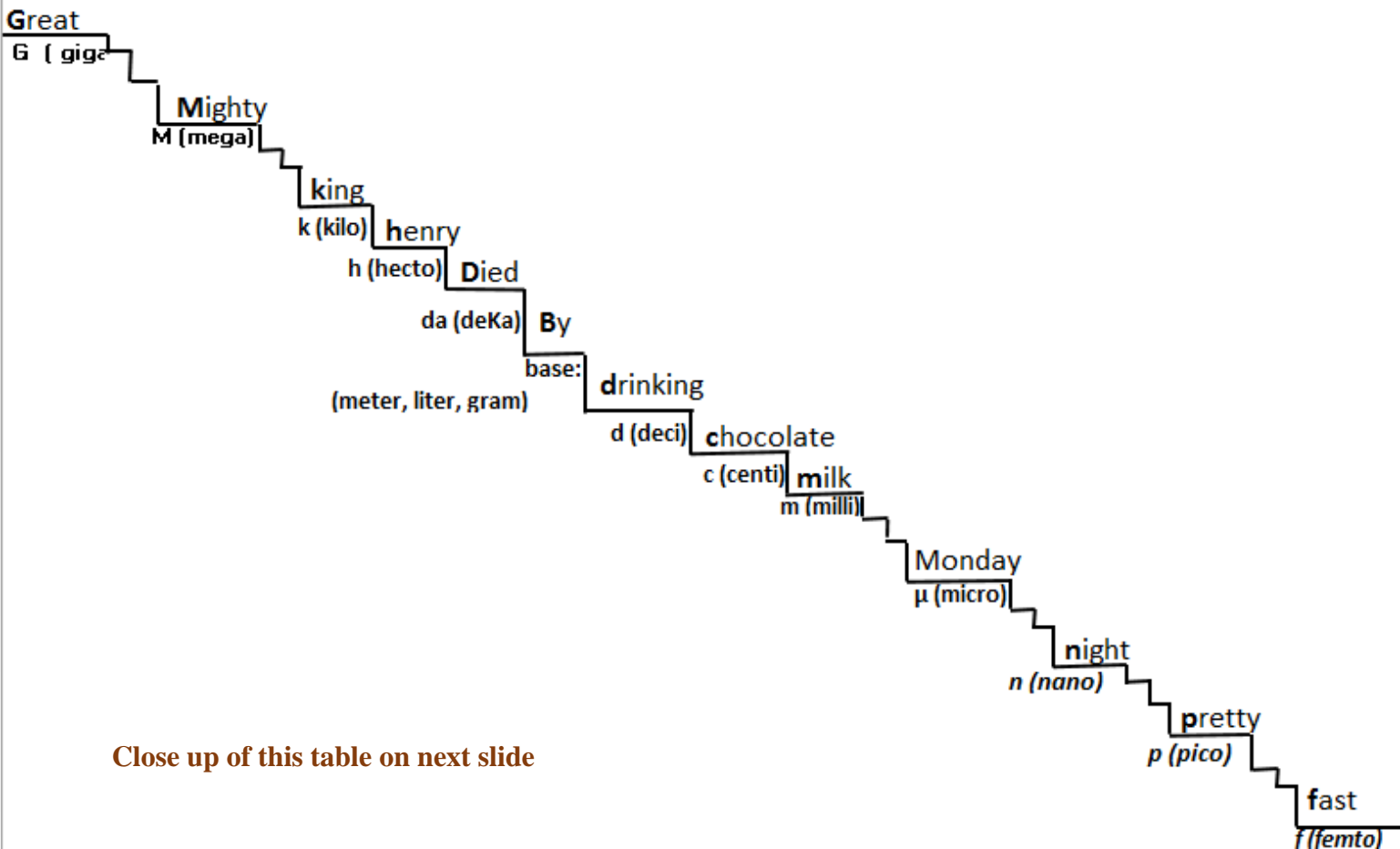
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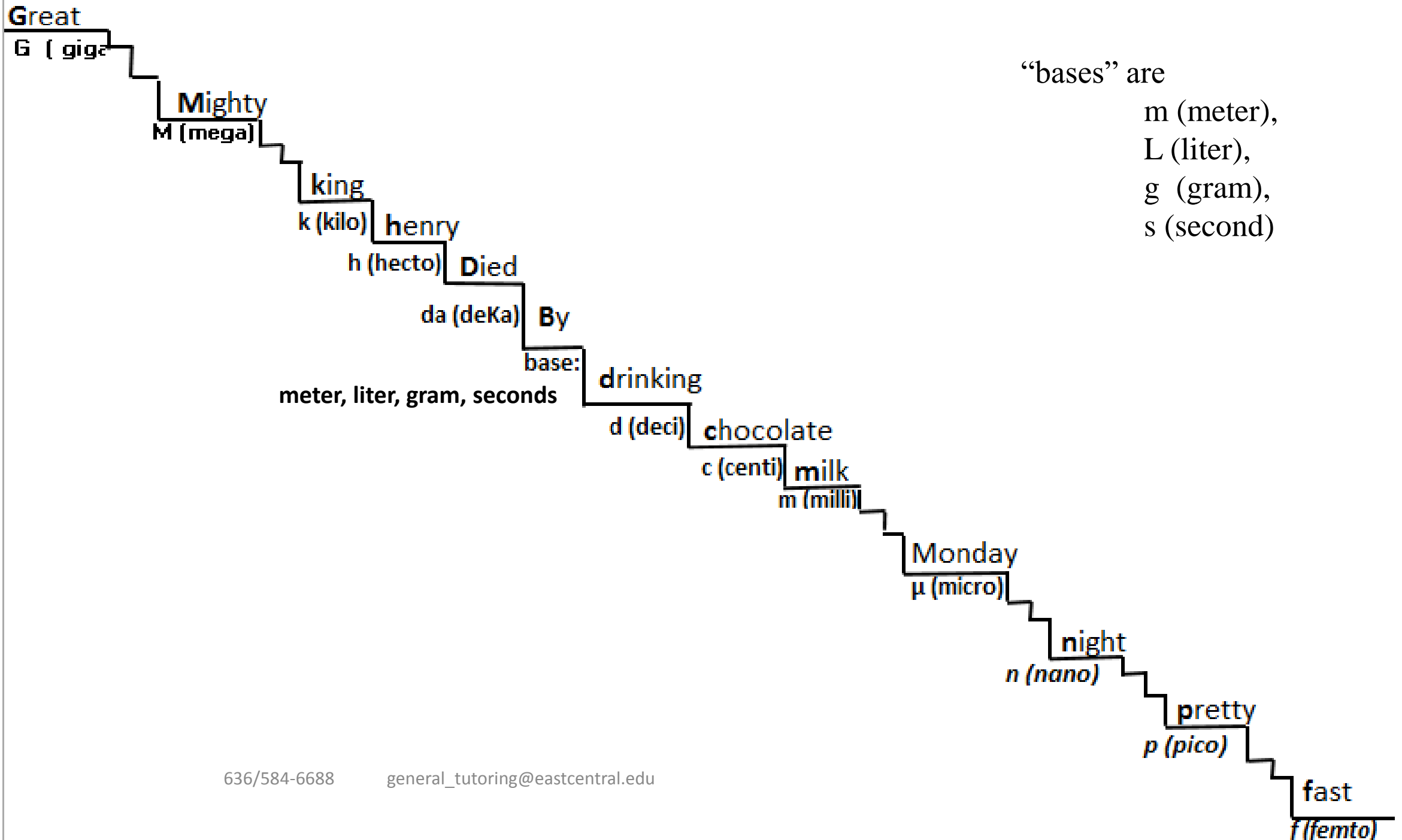
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The following phrase helps arrange the prefixes for SI or metric conversions ...

Great Mighty king henry Died By drinking chocolate milk Monday night pretty fast



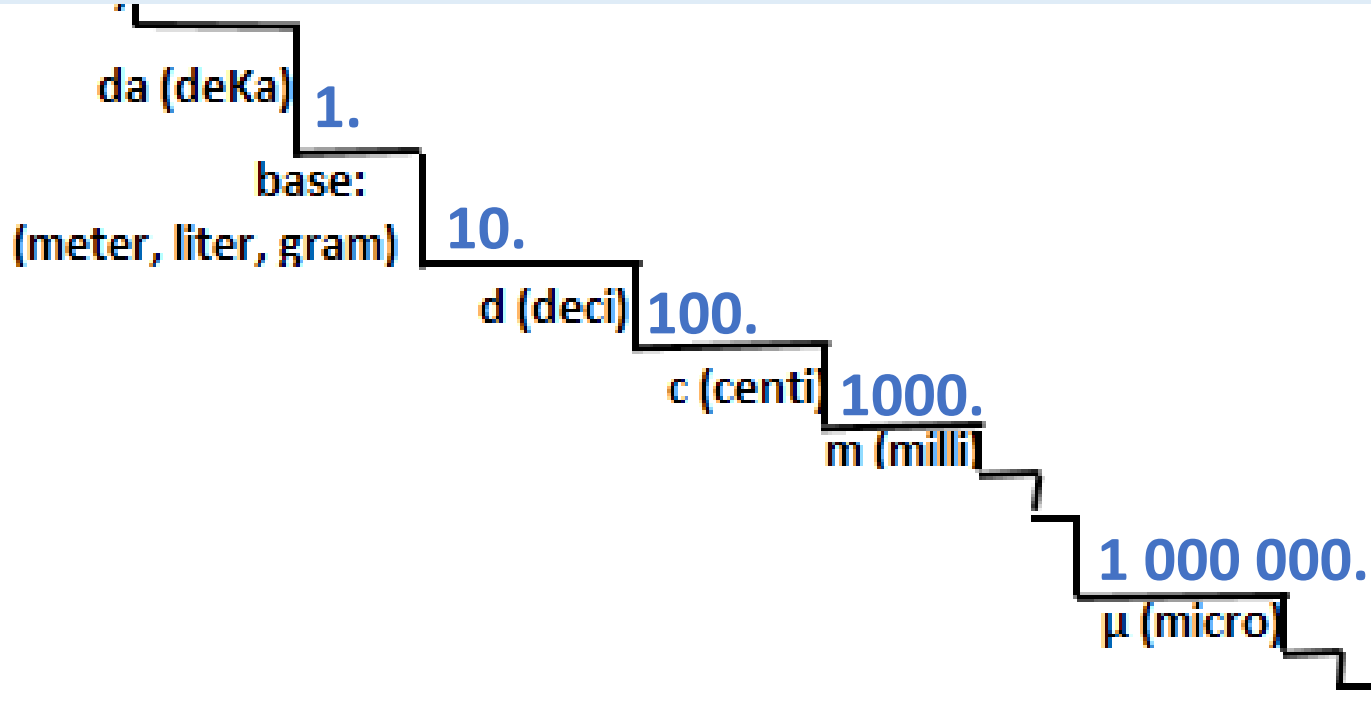
Giga- Mega- kilo- hecto- deKa- base deci- centi- milli- μmicro- nano- pico- femto-



To use metric steps:

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The decimal point moves to the right,
the same number of steps down ...



$$1\text{m} = 10. \text{ dm}$$

$$1\text{m} = 100. \text{ cm}$$

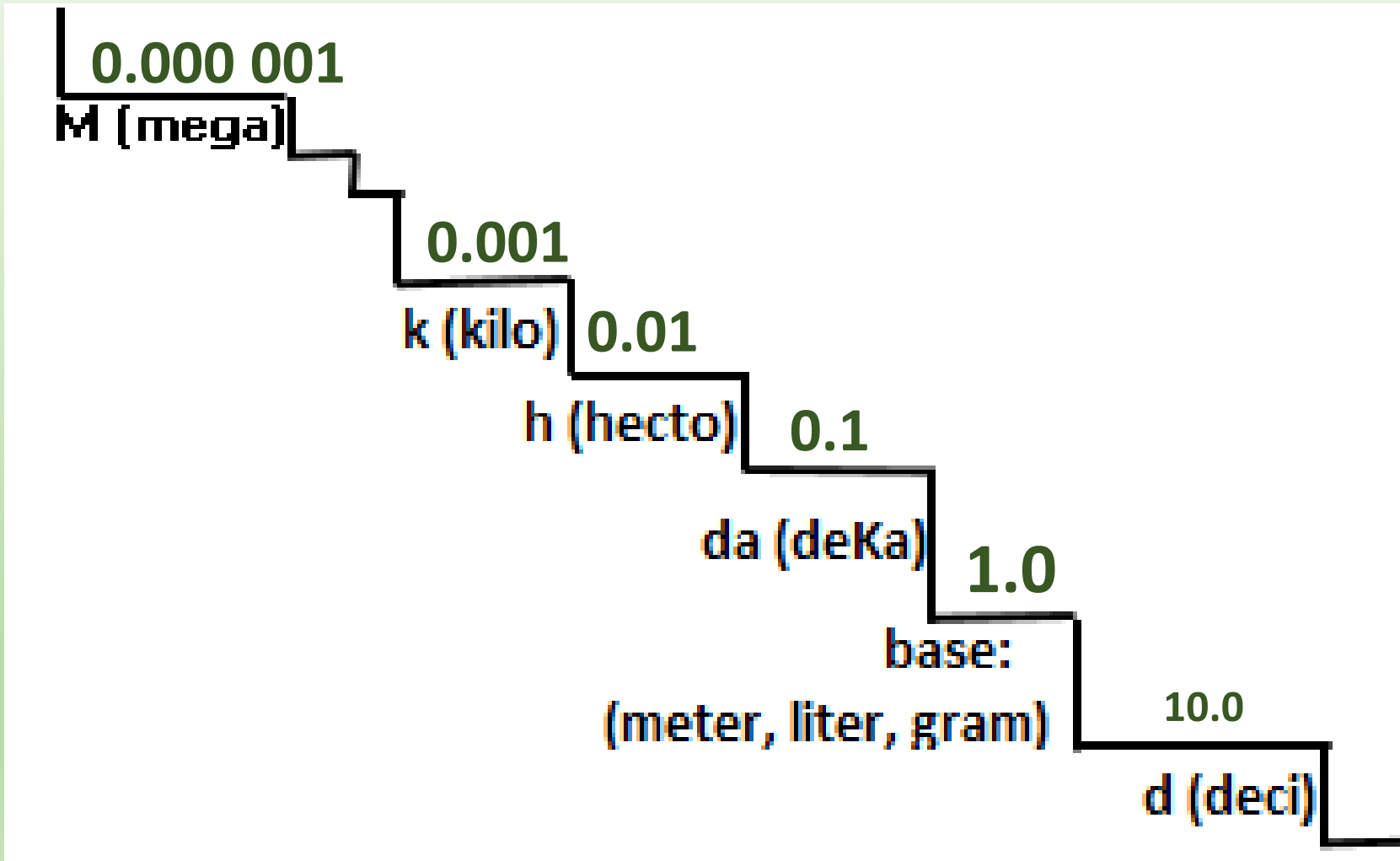
$$1\text{m} = 1000. \text{ mm}$$

$$1\text{m} = 1\,000\,000. \text{ } \mu\text{m}$$

Using the metric steps...

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Decimal point moves left as quantity moves up the steps



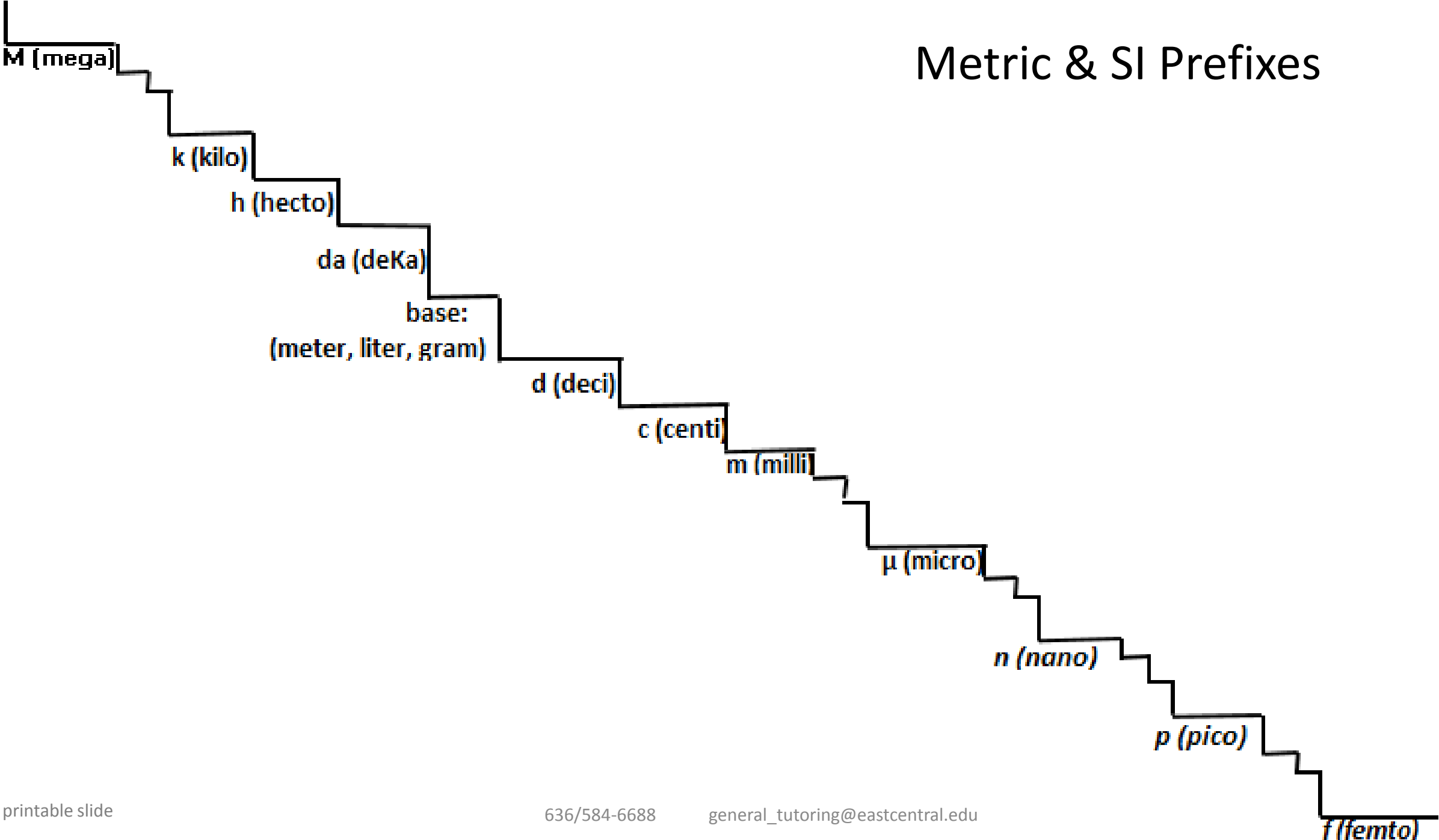
$$1\text{m} = 0.1 \text{ dam}$$

$$1\text{m} = 0.01 \text{ hm}$$

$$1\text{m} = 0.001 \text{ km}$$

$$1\text{m} = 0.000\ 001 \text{ Mm}$$

Metric & SI Prefixes



Metric Length Conversion practice...

$$1 \text{ meter} = 100. \text{ cm}$$

$$1 \text{ cm} = 10. \text{ mm}$$

$$1 \text{ meter} = 1000. \text{ mm}$$

more...

$$1 \text{ meter} = 0.001 \text{ kilometers}$$

$$1 \text{ km} = 1000. \text{ m}$$

$$1 \text{ meter} = 10. \text{ dm}$$

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For more metric conversions see science PowerPoint: 'Metric/English conversions'

Metric Volume Conversion practice...

$$1 \text{ liter} = 1000. \text{ mL}$$

$$1 \text{ liter} = 100. \text{ cL}$$

$$1 \text{ liter} = 10. \text{ dL}$$

more...

$$1 \text{ kiloliter} = 1000. \text{ liters}$$

$$1 \text{ L} = 0.001 \text{ kL}$$

$$1\ 000\ 000 \text{ mL} = 1. \text{ kL}$$

$$*1\ 000\ 000 \text{ mL} = 1\ 000\ 000 \text{ cc}$$

Metric Mass Conversion practice...

$$1 \text{ gram} = 10 \text{ dg}$$

More....

$$1 \text{ gram} = 100 \text{ cg}$$

$$1 \text{ g} = 0.001 \text{ kg}$$

$$1 \text{ gram} = 1000 \text{ mg}$$

$$1 \text{ kg} = 1000 \text{ g}$$

$$1 \text{ cg} = 10 \text{ mg}$$