Introduction to Science

Mr. Skirbst

Weekly Routine

- MON: Intro to Topic / Video
- TUE: Lesson / Notes
- WED: Notes / Activity
- THU: Laboratory
- FRI: Quiz

1. Answer the "Weekly Challenge"

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- 2. Remember "Scientist of the Week"

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- 6. Go on a "Fun Family Field Trip"

- 1. Answer the "Weekly Challenge"
- 2. Remember "Scientist of the Week"
- 3. Ask a "Good Question!"
- 4. Read Text / Answer Questions
- 5. Review "Science in the News"
- 6. Go on a "Fun Family Field Trip"
- 7. Watch a science Movie/Show

- MON: Minute-to-Win-It
- TUE: Trivia Challenge
- WED: Wacky Word Puzzle
- THU: Lab Laugh (weekly joke)
- FRI: Quiz Quote (weekly wisdom)

Website Link

Please visit

www.Skirbst.org

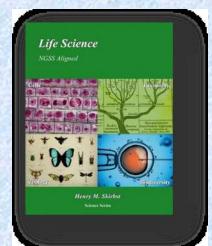
...every week to get caught up and stay ahead.

Use the resources there to help be a better science student and have fun!

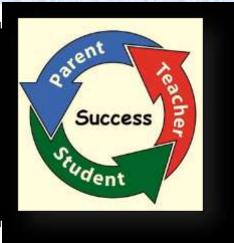


www.Skirbst.org (click on an image below)









Other Books



Earth & Space Science Grade 6

Activities & Practice Quizzes

Lessons and Videos below:

Topic 0: Introduction to Science

UNIT 1: Geology

Topic 1: Minerals

Topic 2: Rocks

Topic 3: Fossils

Topic 4: Geologic Time

Topic 5: Plate Tectonics

Topic 6: Geomorphology

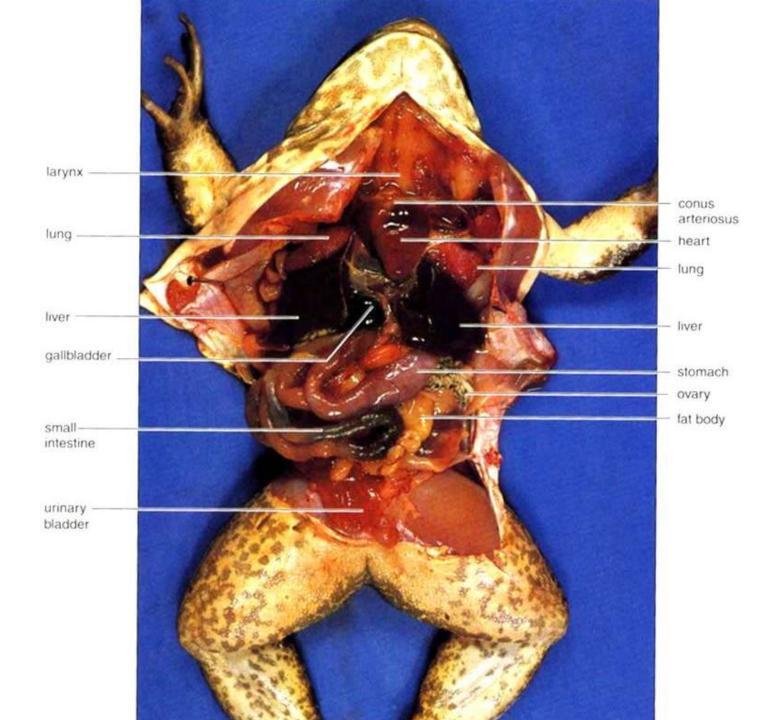
Weekly Challenge: If you are in a race and you pass the person in second place, what place will you be in?



Henry M. Skirbst October 18, 1968 - ????

Mr. Skirbst has always loved science and helping others understand it. He is the "scientist of the week" this week for creating your science program this year.





Scientific Terms (dissect terms)

Prefixes

Suffixes

Scientific Terms

(dissect terms)

Prefixes come before root word

Suffixes

Scientific Terms

(dissect terms)

Prefixes come before root word

Suffixes come after root word

Scientific Terms

(dissect terms)

Prefixes come before root word

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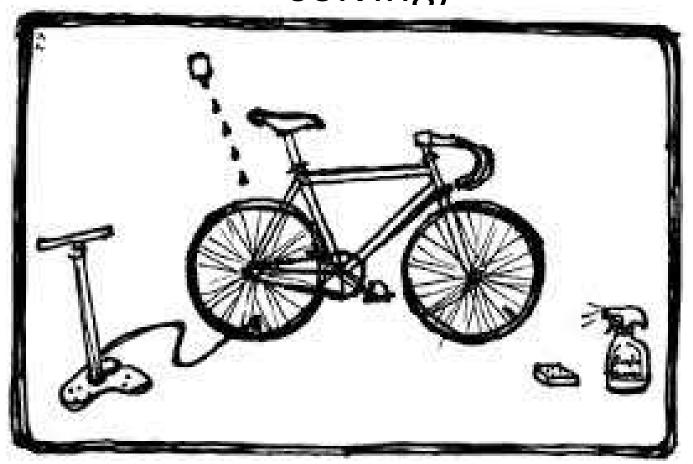
Ex. micro- + -meter = micrometer

(systematic approach to *problem-solving*)

(systematic approach to problem-solving)



(systematic approach to problem-solving)



(systematic approach to problem-solving)

PROBLEM What do I want to know?

(systematic approach to problem-solving)

PROBLEM What do I want to know?

HYPOTHESIS What do I *think* the answer is?

(systematic approach to problem-solving)

PROBLEM What do I want to know?

HYPOTHESIS What do I think the answer is?

PROCEDURE What do *I do* to answer the problem?

(systematic approach to problem-solving)

PROBLEM What do I want to know?

HYPOTHESIS What do I think the answer is?

PROCEDURE What do I do?

OBSERVATION What do I <u>see, hear,</u>
<u>smell, feel, taste</u>?

(systematic approach to problem-solving)

PROBLEM What do I want to know?

HYPOTHESIS What do I think the answer is?

PROCEDURE What do I do?

OBSERVATION What do I (sense)?

(systematic approach to problem-solving)

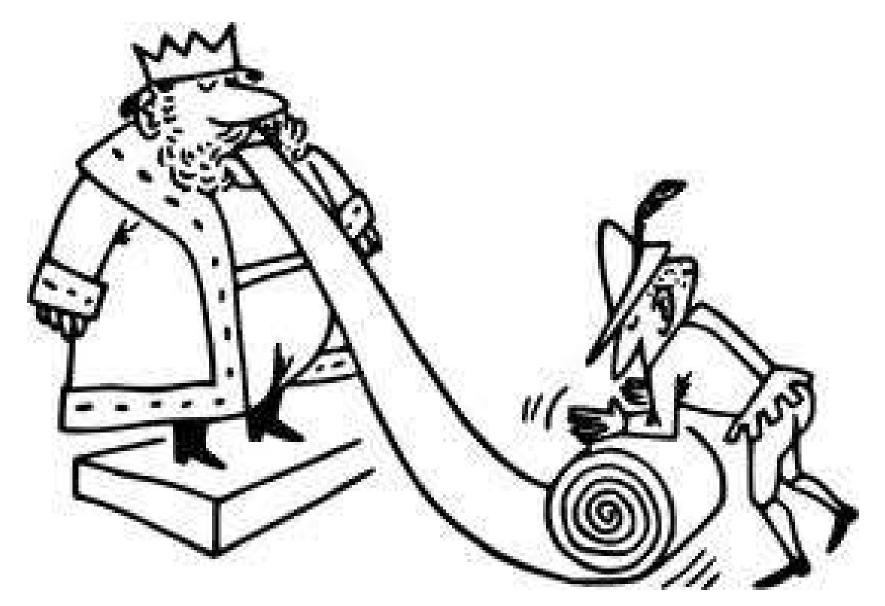
PROBLEM What do I want to know?

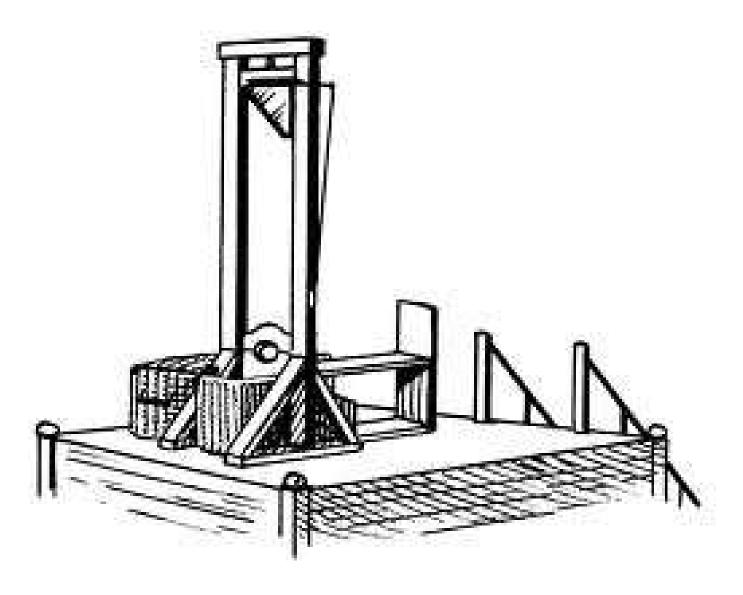
HYPOTHESIS What do I think the answer is?

PROCEDURE What do I do?

OBSERVATION What do I see, hear, smell, feel, taste?

CONCLUSION Based on <u>observations</u>, what is the answer to the <u>PROBLEM</u>?





Basic Units in the METRIC SYSTEM

length -

volume –

mass -

temperature –

Basic Units in the METRIC SYSTEM

length – meter (m)

volume –

mass -

temperature -

Basic Units in the METRIC SYSTEM

```
length - meter (m)
```

volume – *liter (I)*

mass -

temperature –

Basic Units in the METRIC SYSTEM

```
length – meter (m)
```

```
volume – liter (I)
```

mass – gram (g)

temperature –

Scientific Measurement

Basic Units in the METRIC SYSTEM

```
length – meter (m)
```

volume – liter (I)

mass – gram (g)

temperature – degrees Celsius (°C)





length – volume –

mass -

temperature –

length – ruler (ex. meter stick)

volume –

mass -

temperature -

length – ruler (ex. meter stick)
volume – *graduate*mass –

temperature -

length – ruler (ex. meter stick)
volume – graduate
mass – balance
temperature –

length – ruler (ex. meter stick)
volume – graduate
mass – balance

temperature – *thermometer*

(added in front of basic unit:

meter, liter, and gram)

milli- deca-

centi- hecto-

deci- kilo-

(added in front of basic unit:

meter, liter, and gram)

milli- .001 deca-

centi- hecto-

deci- kilo-

(added in front of basic unit:

meter, liter, and gram)

milli- .001 deca-

centi- .01 hecto-

deci- kilo-

(added in front of basic unit:

meter, liter, and gram)

milli- .001 deca-

centi- .01 hecto-

deci- .1 kilo-

(added in front of basic unit:

meter, liter, and gram)

milli- .001 deca- *10*

centi- .01 hecto- **100**

deci- .1 kilo- *1000*

(added in front of basic unit:

meter, liter, and gram)

milli- .001 deca- 10

centi- .01 hecto- 100

deci- .1 kilo- 1000

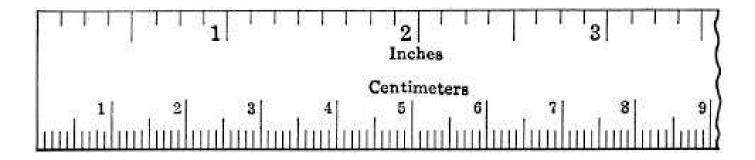
(Ex. kilometer = 1,000 meters)

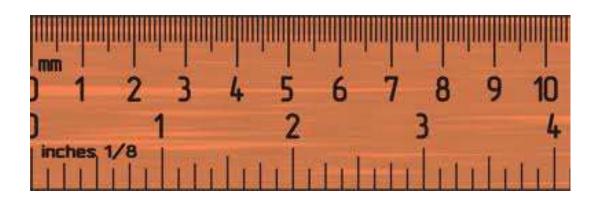
Memory Aid

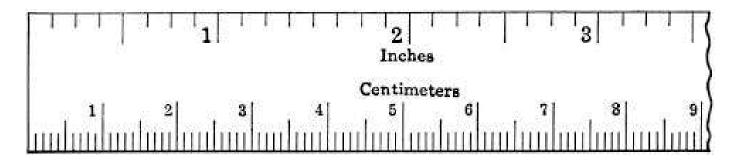
King Henry Died Unexpectedly Drinking Chocolate Milk Kilo Milli **Hecto** Deka Unit Centi Deci 1,000 100 10 Meter .001 .01 Liter Gram largest to smallest - multiply smallest to largest - divide

Lab Measurements

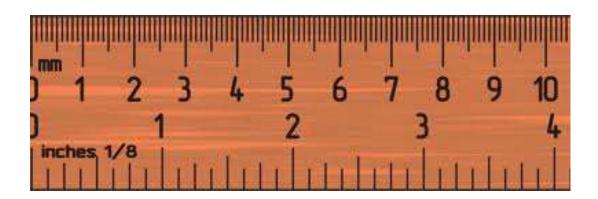


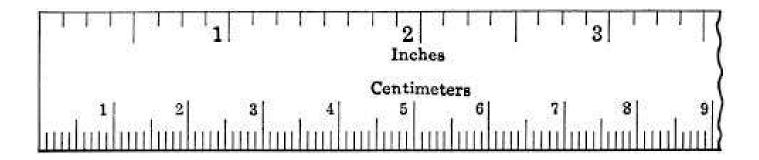




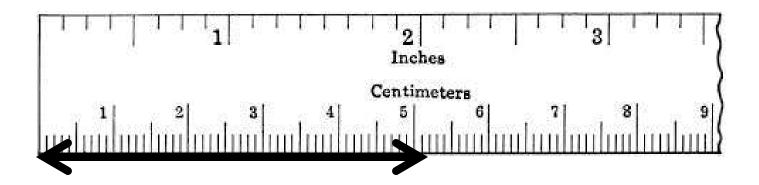


- Metric System Only





Draw a line 5.2 cm long.



Draw a line 5.2 cm long.

Liquids

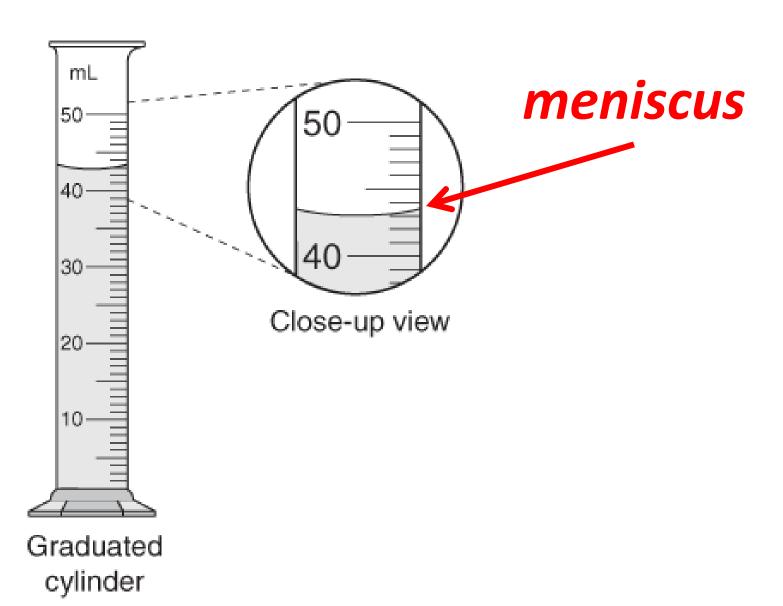


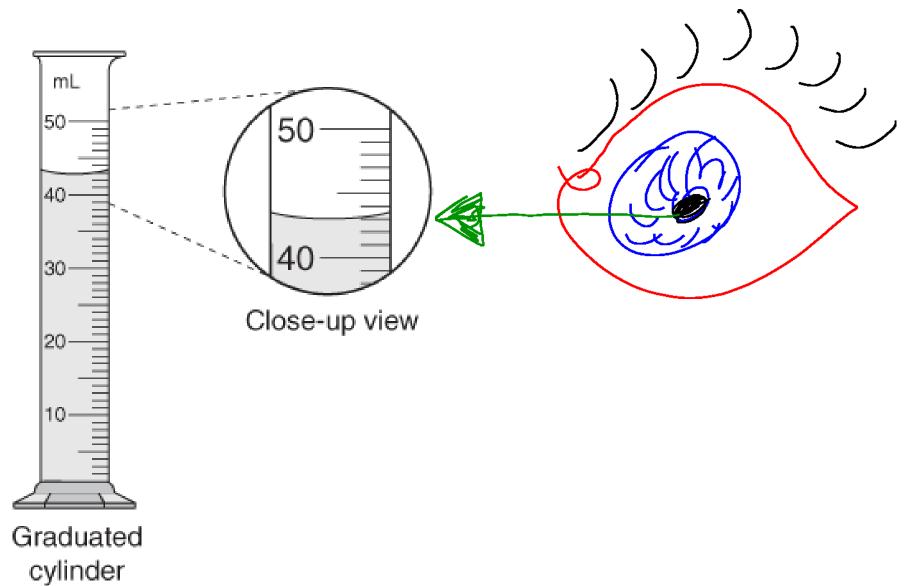


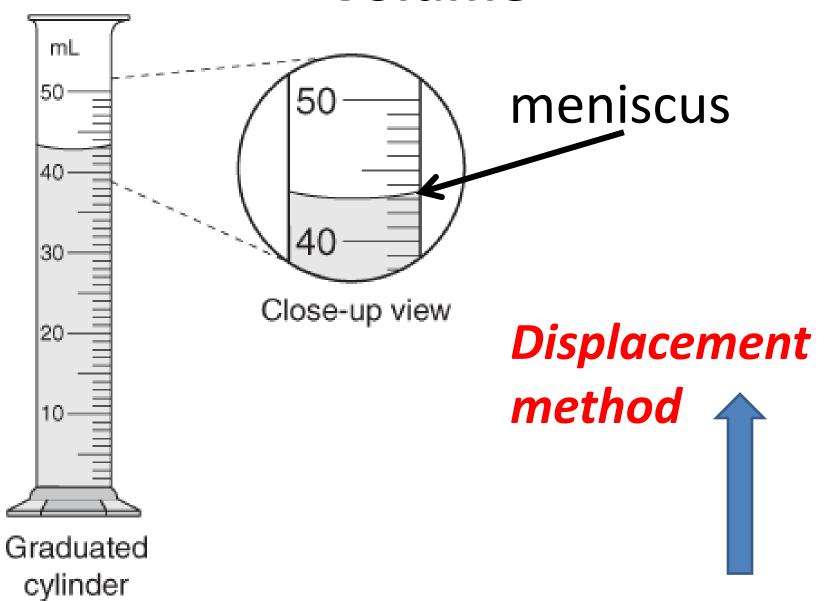
Solids







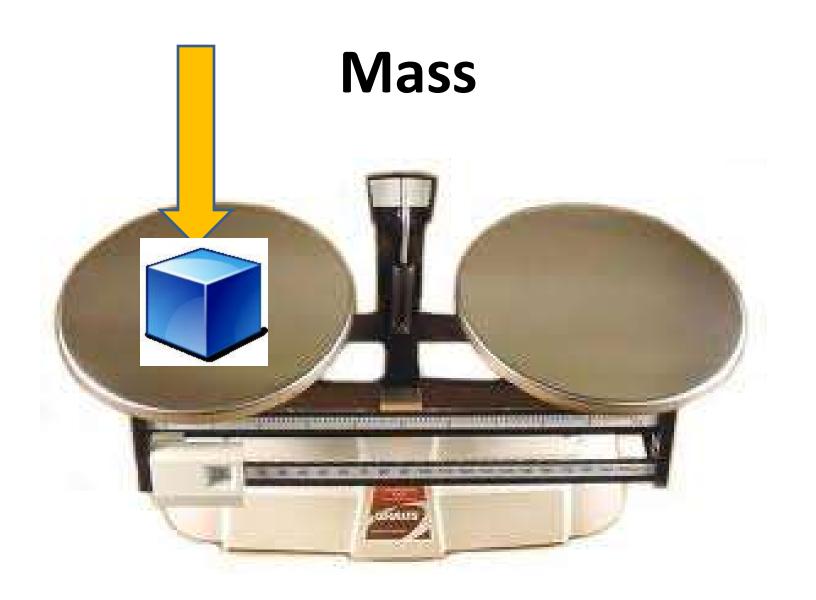




Balance measures mass, scales measure weight



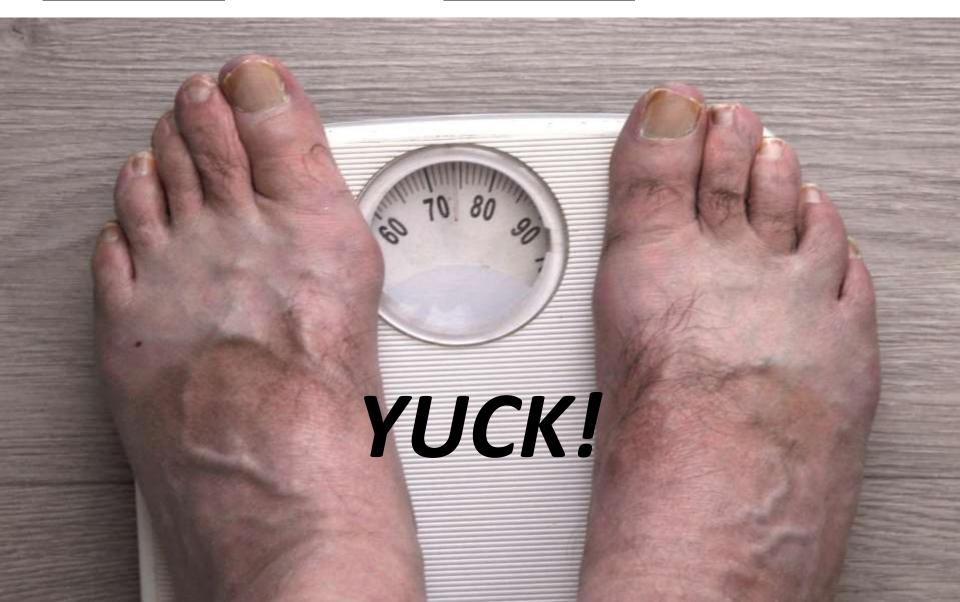






Balance measures *mass* (scale measures *weight*)

SCALES measure **WEIGHT**, NOT MASS



Temperature



Temperature



Read like a ruler - in degrees Celsius

Lab Measurements

Significant Digits

Lab Measurements

Significant Digits

Refer to appendix in back of book...

Lab Safety

PLEASE, NO food or drink in the LAB!

Sugar and acid video 1

Sugar and acid video 2

Acid and other things