

A
9/1/16

B
9/2/16

Conclusion + Analyzing Data

Notes: Do Now

- In your own words, describe why it is important for procedures of an experiment be written clearly.

Focus

Sc. 6.N.1.3

Conclusion

Vocab

- conclusion

- data

Notes: Conclusion

- Summary of information
- Shows relationship among data

Analyzing Data - show info. gathered during investigation

Ways to
show my
data →

?

FOLDABLE

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9/1/16

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Scientific Tools

NOTES: Scientific Tool

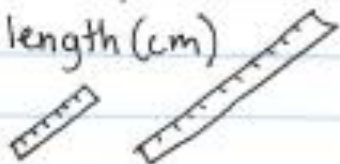
- used to measure

FOCUS
SC.6.N.1.3
- Tools

Vocab
- sci. instrument

① Ruler/meterstick

• length (cm)



② Science Journal

• notes, record data



③ Thermometer

• temperature ($^{\circ}\text{C}$)



④ Computer

• Research



⑤ Triple-Beam Balance

• mass (g)



⑥ Glassware

• beakers + graduated cyl.

• Volume (mL)



⑦ wind vane

• direction of wind



⑧ anemometer

• wind speed



⑨ stop watch

• time (s)



⑩ Compass

• direction



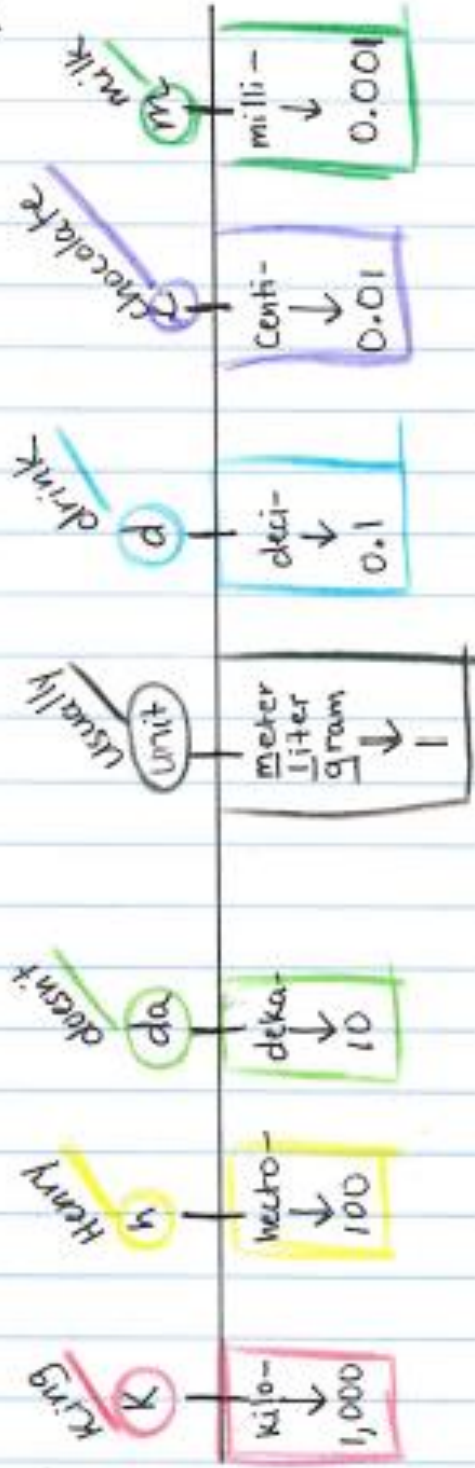
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Conversions

NOTES:

FOCUS:
conversions

Vocab:
conversion



Try: 3m = km

ex) 72g = mg
1) start at g 2) move decimal
2) jump to m 722000 → 72,000

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Mean, Median, Mode, Range

NOTES: **Mean** - "average"

- ① - add all #s together
- ② - \div by # of data

FOCUS/VOCAB

- mean
- median
- mode
- range

ex) 2, 8, 10, 1, 4

① $2 + 8 + 10 + 1 + 4 = 25$

②
$$\begin{array}{r} 5 \overline{) 25} \\ \underline{25} \\ 0 \end{array}$$

③ mean = $\boxed{5}$

median - "the middle #"

- ① - arrange #s smallest to largest
 - ② - find middle #
 - ③ - if 2 middle #, find mean
- ex) ① 2, 8, 10, 1, 4 ② 1, 2, 4, 8, 10 ③ 4 = median

mode - "the most"

- ① arrange the #s smallest to largest
- ② Find which # occurs the most
[there could be more than 1, or none]

ex) 8, 6, 7, 8, 8, 7, 7, 7, 10

① 6, 7, 7, 7, 7, 8, 8, 8, 10

② mode = $\boxed{7}$

Range - " $\uparrow - \downarrow$ "

- ① find the highest #, and lowest #
- ② subtract \uparrow from \downarrow

ex) 2, 8, 10, 1, 4 ① $10 - 1 = 9$ ② range = $\boxed{9}$

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Significant Digits

NOTES: Significant Digits - "Important Digits"

- # of digits within certain degree of reliability.

Focus
Sig. Digits

Vocab:
sig. digits.

RULES [→ #1-9]

- 1) ALL NONZERO # are sig. (12) ^{or}
- 2) 0 between nonzero = sig. (107) yes!
- 3) Final 0s after decimal = sig. (0.700)
- 4) 0 as place holder = not sig. (0.0070)

| | # | sig. dig. |
|-----|--------|-----------|
| ex) | 1.234 | 4 |
| | 0.200 | 3 |
| | 1,002 | 4 |
| | 0.001 | 1 |
| | 50,000 | 3 |