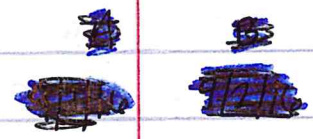
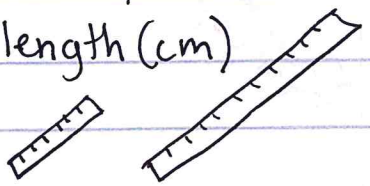
Scientific Tools



NOTES: Scientific Tool
- used to measure

FOCUS
SC.6.N.1.3
- Tools

Vocab
- sci. instrument

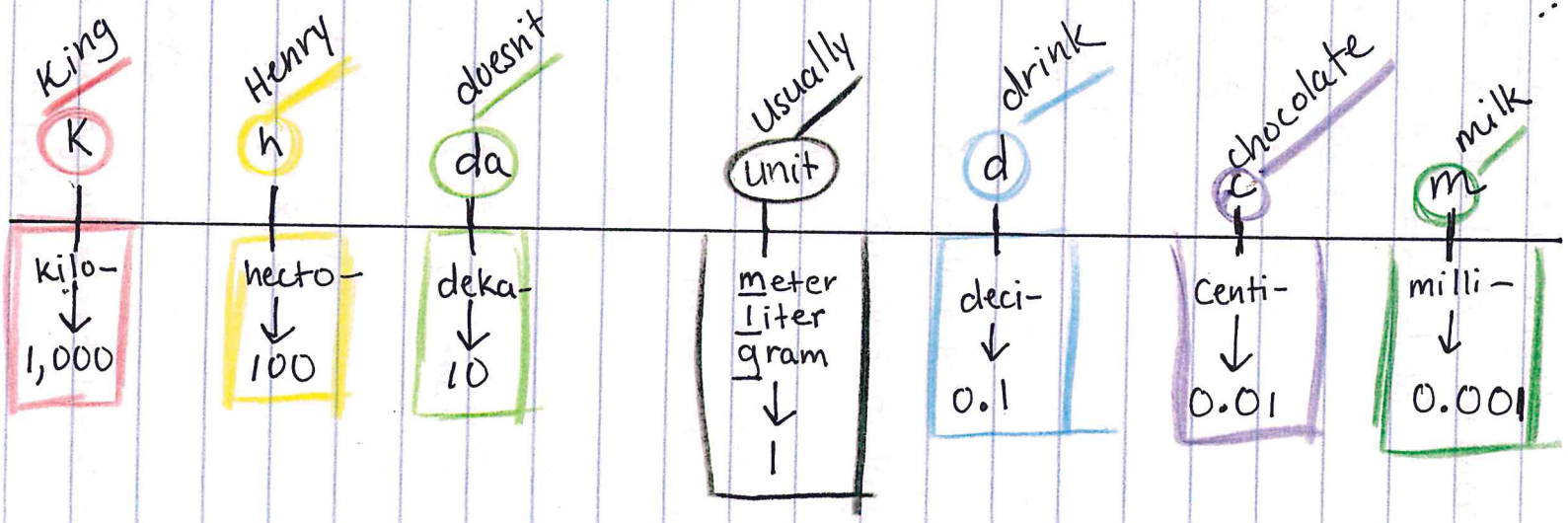
① Ruler/meterstick • length (cm) 	② Science Journal • notes, record data
③ Thermometer • temperature (°C) 	④ Computer • Research
⑤ Triple-Beam Balance • mass (g) 	⑥ Glassware • beakers + graduated cyl. • Volume (mL)
⑦ wind vane • direction of wind 	⑧ anemometer • wind speed
⑨ stop watch • time (s) 	⑩ Compass • direction

Conversions

NOTES:

Focus: conversions

Vocab: conversion



ex| 72g = ___ mg

1) - start at g
2) - jump to m
3) move decimal

72.0d0.0m → 72,000

Try: 3m = ___ km

[redacted]

Mean, Median, Mode, Range

NOTES: **Mean** - "average"

① - add all #s together

② - ÷ by # of data

ex| 2, 8, 10, 1, 4

① 2 + 8 + 10 + 1 + 4 = 25

② $5\overline{)25}$ = 5, −25, 0

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

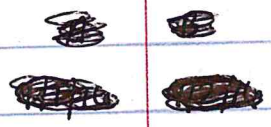
② mode = $\boxed{7}$

Range - "↑ - ↓"

① - find the highest #, and lowest #

② subtract ↑ from ↓

ex| 2, 8, 10, 1, 4 ① 10 − 1 = 9 ② range = $\boxed{9}$



FOCUS/VOCAB

- mean
- median
- mode
- range

Significant Digits

Focus
Sig. Digits

Vocab:
sig. digits.

NOTES: Significant Digits - "Important Digits"

- # of digits within certain degree of reliability.

RULES [→ #1-9]

1) ALL NONZERO # are sig. (12) (er)
2) 0 between nonzero = sig. (107) yes!
3) Final 0's after decimal = sig. (ø.700)
4) 0 as place holder = not sig. (ø.øø70)

	#	sig. dig.
ex	1.234	4
	0.200	3
	1,002	4
	0.001	1
	50,600	3