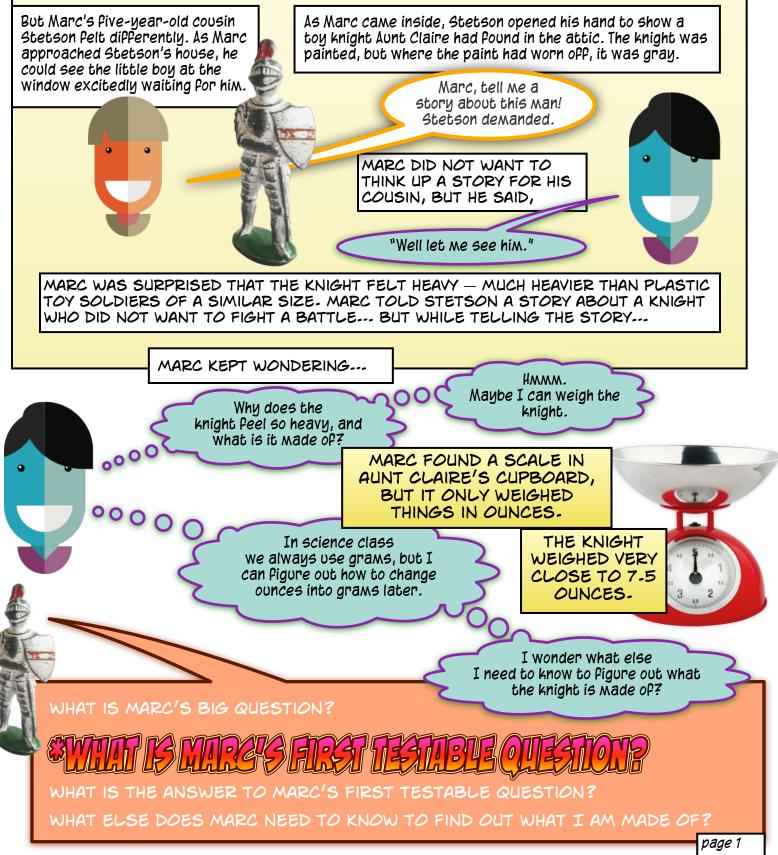
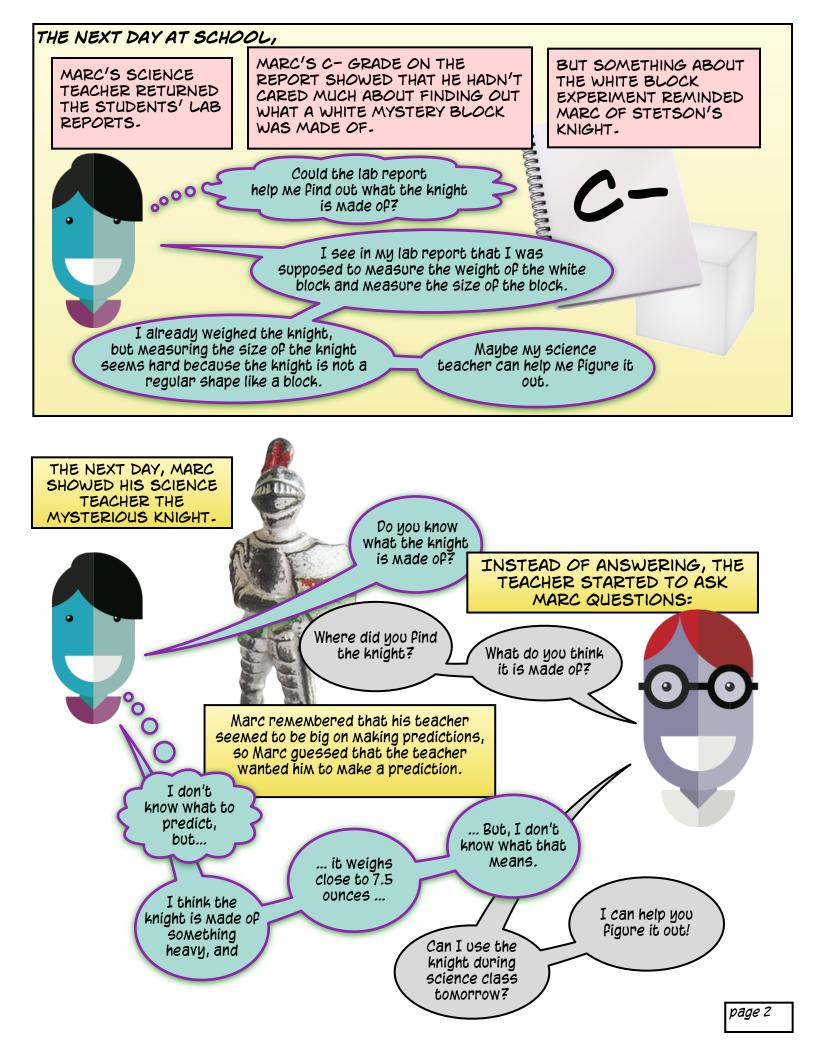


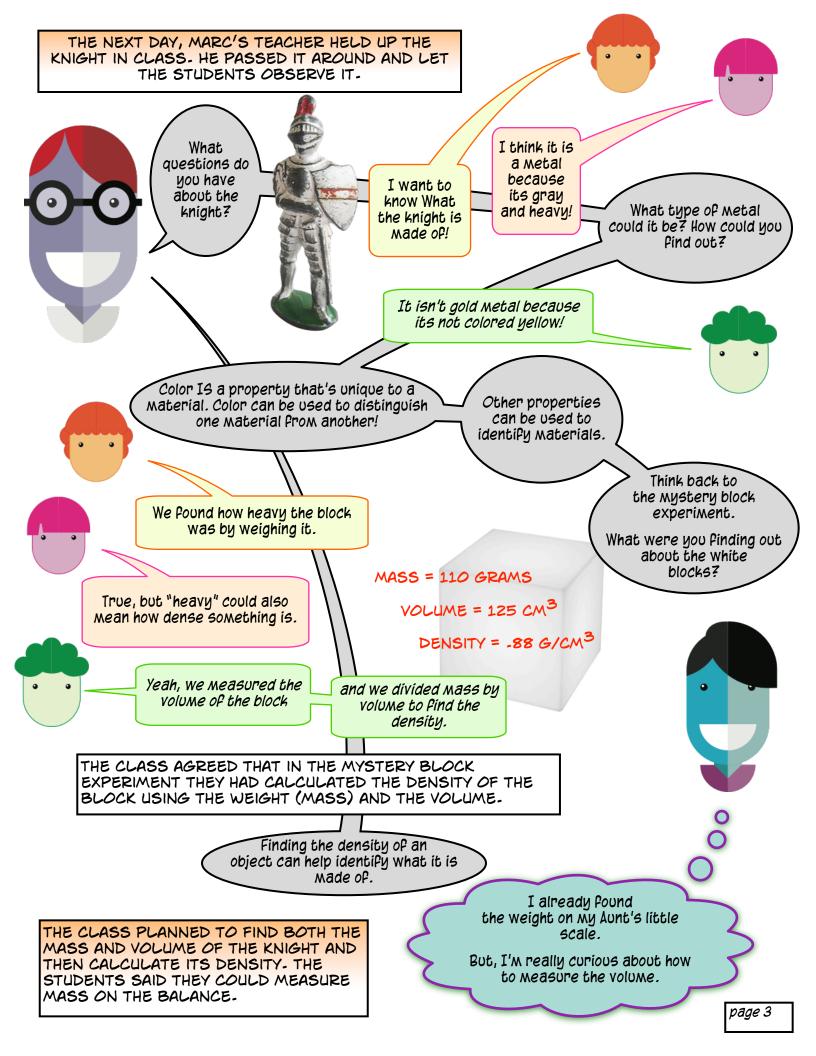
# MARC HATED BABYSITTING AFTER SCHOOL.

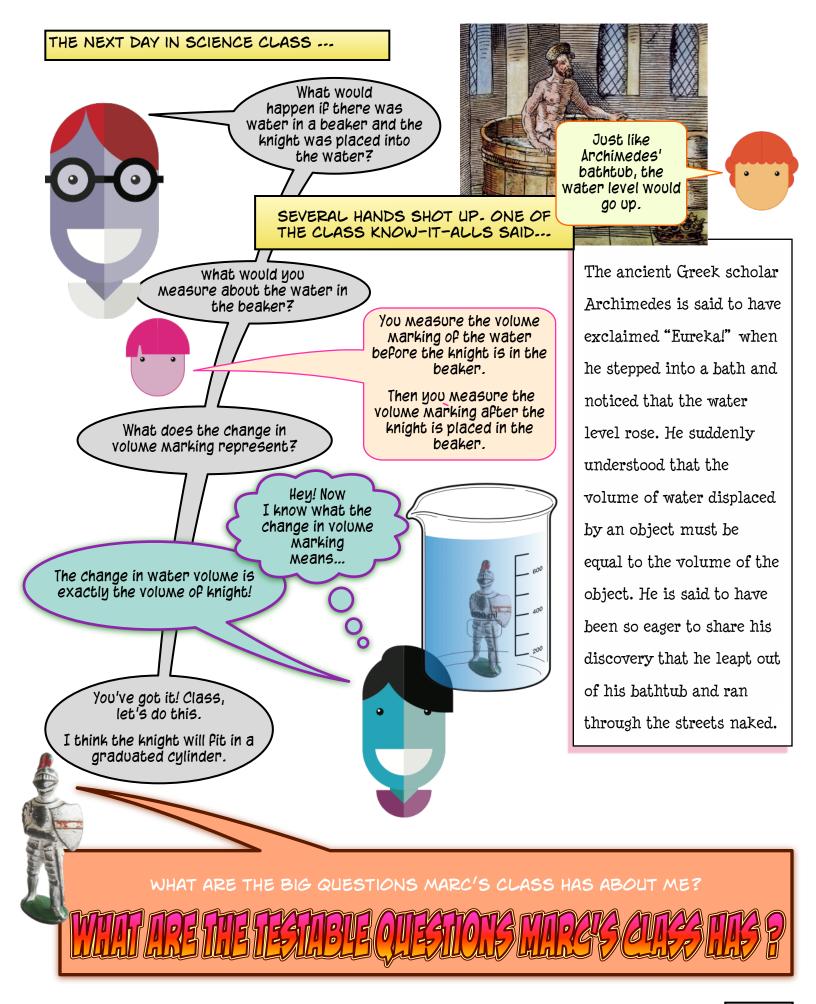
## HE'D RATHER BE HANGING OUT WITH FRIENDS.



\*A TESTABLE QUESTION CAN BE ANSWERED WITH AN SCIENCE INVESTIGATION







## THE RESULTS ....

### FOUR GROUPS IN THE CLASS WEIGHED STETSON'S KNIGHT AND REPORTED WEIGHTS IN THE FOLLOWING TABLE.

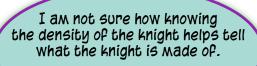
#### WHAT WEIGHT OF ME DID THE CLASS FIND?

Group Number	Weight of Stetson's Knight	
#1	213 д	
#2	215 g	
#3	374 д	
#4	210 g	

FOUR OTHER GROUPS OF STUDENTS PLACED THE KNIGHT IN A GRADUATED CYLINDER WITH WATER. THEIR MEASUREMENTS ARE RECORDED IN THE TABLE BELOW.

WHAT VOLUME OF ME DID THE CLASS FIND?

Group Number	Initial Water Height	Final Water Height	
#5	50.0 mL	74.5 mL	
#6	52.7 mL	78.5 mL	
#7	46.0 mL	70.0 mL	WHAT DENSITY OF ME DID THE CLASS FIND?
#8	41.3 mL	67.0 mL	



Can you explain?

Very good question, Marc!

> We need to find out what the density of some common known metals or metallic materials are and then compare them to the density of the knight.

MARC'S TEACHER HELPS THE STUDENTS FIND A TABLE OF METALS AND PROPERTIES ....

	Metal or material	Density	Melting Point	Color
	Gold	19.3 g/cm <sup>3</sup>	1064 C	Yellow Gold
SCIENTISTS RECORD DENSITY USING THE UNIT CM3 FOR VOLUME INSTEAD OF ML. 1 ML = 1 CM3	Copper	8.94 g/cm³	1085 C	Orange Gold
	Lead	11.34 g/cm <sup>3</sup>	327 C	Gray
	Tin	7.3 g/cm <sup>3</sup>	232 C	Gray
	Brass	8.4-8.7 g/cm <sup>3</sup>	900-940 C	Gold
	Stainless steel	7.9-8.03 g/cm <sup>3</sup>	1400-1450 <i>C</i>	Gray
	63/37 Tin/Lead Solder	8.40 g/cm <sup>3</sup>	183 C	Gray

