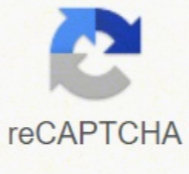




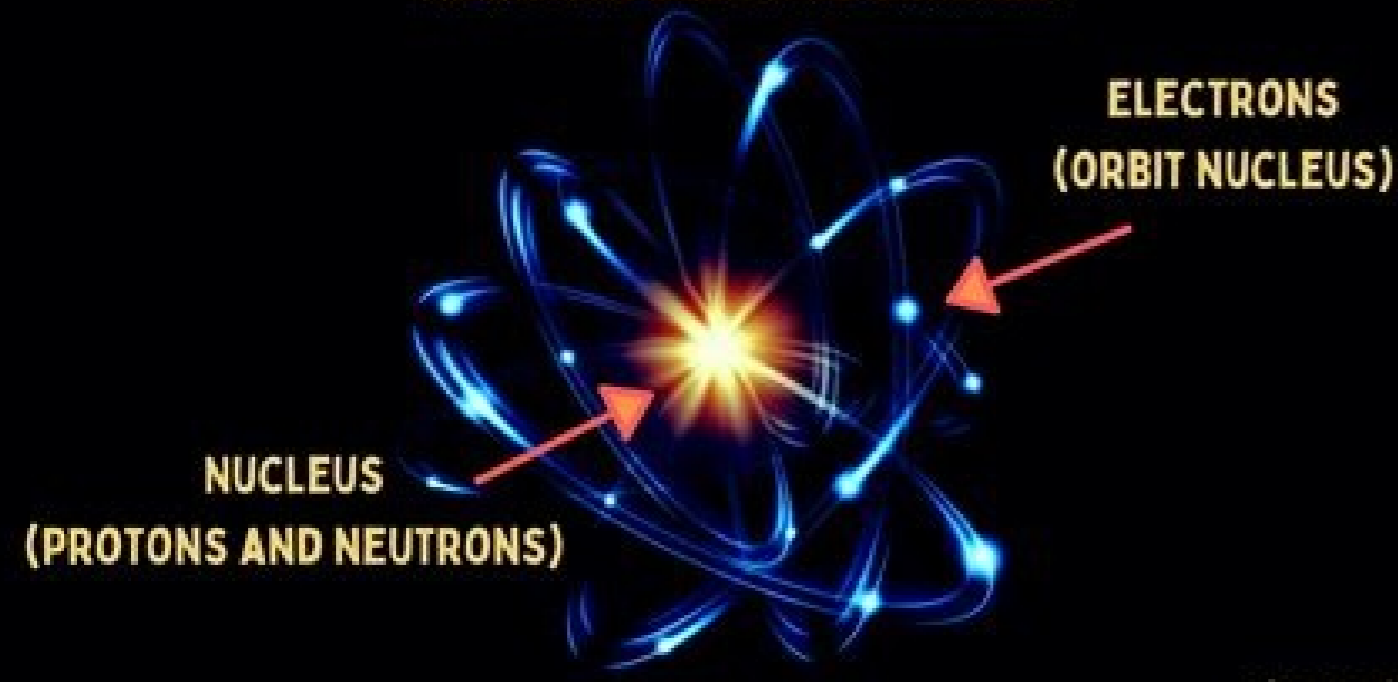
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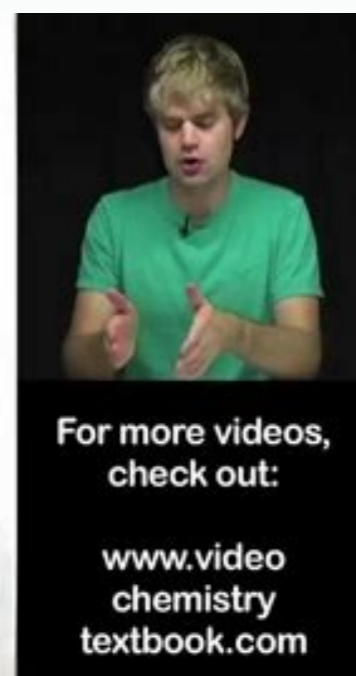
Open

WHAT IS AN ELECTRON?

AN ELECTRON IS A STABLE ELEMENTARY PARTICLE THAT HAS A NEGATIVE ELECTRIC CHARGE.



sciencenotes.org



For more videos, check out:
www.videochemistrytextbook.com

How many seconds are there in five days?

$$5 \text{ days} = \frac{24 \text{ hours}}{1 \text{ day}} \times \frac{60 \text{ minutes}}{1 \text{ hour}} \times \frac{60 \text{ seconds}}{1 \text{ minute}} = 432,000 \text{ seconds}$$

Name: Key
Hour: _____ Date: _____

Chemistry: Molar Mass and Percentage Composition

Calculate the molar masses and percentage composition of each of the following compounds. Show your work and always include units.

1. Ca_3P_2
 $\frac{3(40.08 \text{ amu})}{3(40.08) + 2(30.97)} = 66\% \text{ Ca}$ $100 - 66 = 34\% \text{ P}$

2. $\text{Ca}(\text{OH})_2$
 $\frac{40.08 \text{ amu Ca}}{40.08 + 2(16.00) + 2(1.01)} = 54\% \text{ Ca}$ $\frac{2(16.00 \text{ amu O})}{74.1 \text{ amu}} = 43\% \text{ O}$ $\frac{2(1.01 \text{ amu H})}{74.1} = 3\% \text{ H}$

3. Na_2SO_4
 $\frac{2(22.99 \text{ amu Na})}{2(22.99) + 32.07 + 4(16.00)} = 32\% \text{ Na}$ $\frac{32.07 \text{ amu S}}{142.05 \text{ amu}} = 23\% \text{ S}$ $\frac{4(16.00 \text{ amu O})}{142.05 \text{ amu}} = 45\% \text{ O}$

4. CaSO_4
 $\frac{40.08 \text{ amu Ca}}{40.08 + 32.07 + 4(16.00)} = 29\% \text{ Ca}$ $\frac{32.07 \text{ amu S}}{136.15 \text{ amu}} = 24\% \text{ S}$ $\frac{4(16.00 \text{ amu O})}{136.15 \text{ amu}} = 47\% \text{ O}$

5. $(\text{NH}_4)_2\text{SO}_4$
 $\frac{2(14.01 \text{ amu N})}{2(14.01) + 8(1.01) + 32.07 + 4(16.00)} = 21\% \text{ N}$ $\frac{8(1.01 \text{ amu H})}{132.17 \text{ amu}} = 6\% \text{ H}$ $\frac{32.07 \text{ amu S}}{132.17 \text{ amu}} = 24\% \text{ S}$ $\frac{4(16.00 \text{ amu O})}{132.17 \text{ amu}} = 48\% \text{ O}$

6. $\text{Zn}_3(\text{PO}_4)_2$
 $\frac{3(65.39 \text{ amu Zn})}{3(65.39) + 2(30.97) + 8(16.00)} = 51\% \text{ Zn}$ $\frac{2(30.97 \text{ amu P})}{276.11 \text{ amu}} = 16\% \text{ P}$ $\frac{8(16.00 \text{ amu O})}{276.11 \text{ amu}} = 33\% \text{ O}$

7. $\text{Mg}(\text{NO}_3)_2$
 $\frac{24.31 \text{ amu Mg}}{(24.31) + 2(14.01) + 6(16.00)} = 16\% \text{ Mg}$ $\frac{2(14.01 \text{ amu N})}{146.33 \text{ amu}} = 19\% \text{ N}$ $\frac{6(16.00 \text{ amu O})}{146.33 \text{ amu}} = 65\% \text{ O}$

8. KCl
 $\frac{39.10 \text{ amu K}}{39.10 + 35.45 \text{ amu Cl}} = 52\% \text{ K}$ $100 - 52 = 48\% \text{ Cl}$

- Answers:
- 182.3 g, 66.0% Ca, 34.0% P
 - 74.1 g, 54.1% Ca, 43.2% O, 2.7% H
 - 142.1 g, 32.4% Na, 22.6% S, 45.0% O
 - 136.2 g, 29.4% Ca, 23.6% S, 47.0% O
 - 132.1 g, 21.2% N, 6.1% H, 24.3% S, 48.4% O
 - 286.2 g, 50.8% Zn, 16.1% P, 33.1% O
 - 116.3 g, 20.9% Mg, 24.1% N, 55.0% O
 - 74.6g, 52.4% K, 47.6% Cl

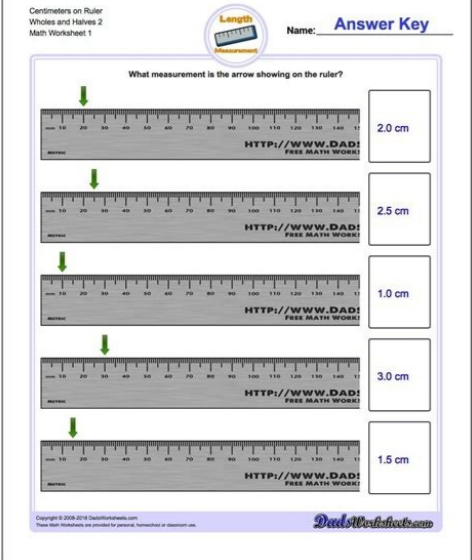
Math 1 Unit Conversion
Liters to Milliliters and Centiliters 1
Math Worksheet 1

Name: _____

Solve the unit conversion problem by cross cancelling units.

9.75 liters =	$\frac{9.75 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 9750 \text{ ml}$
as milliliters	
9.25 liters =	$\frac{9.25 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 9250 \text{ ml}$
as milliliters	
2.75 liters =	$\frac{2.75 \text{ l} \cdot 100 \text{ cl}}{1 \cdot 1 \text{ l}} = 275 \text{ cl}$
as centiliters	
40 liters =	$\frac{40 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 40000 \text{ ml}$
as milliliters	
9.5 liters =	$\frac{9.5 \text{ l} \cdot 100 \text{ cl}}{1 \cdot 1 \text{ l}} = 950 \text{ cl}$
as centiliters	
9.75 liters =	$\frac{9.75 \text{ l} \cdot 100 \text{ cl}}{1 \cdot 1 \text{ l}} = 975 \text{ cl}$
as centiliters	
4.75 liters =	$\frac{4.75 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 4750 \text{ ml}$
as milliliters	
3.5 liters =	$\frac{3.5 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 3500 \text{ ml}$
as milliliters	
9.75 liters =	$\frac{9.75 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 9750 \text{ ml}$
as milliliters	
6.75 liters =	$\frac{6.75 \text{ l} \cdot 1000 \text{ ml}}{1 \cdot 1 \text{ l}} = 6750 \text{ ml}$
as milliliters	

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Weigh a piece of granite of 1.00 cubic feet on your domestic scale and find that 171 pounds weighs. Keep in mind that when you multiply the fractions (as you will go to step 6), you can cancel the units only when they appear both in the numerator and in the denominator. In the aforementioned problem, two zeros can be canceled on both sides of the fraction; note that the calculation becomes 72 divided 10. But it is within a magnitude order. You can drive about 30 mph! Problem 2: The geologists' observations suggest that the two most common rocks exposed to the earth's surface are granite (continental crust) and basalt (ocean crust). If you need a reminder of the steps, you can download and print this worksheet (Acrobat (PDF) 44KB Apr11 08) that accompanies you through the passages for the conversion of units. If you took 120 or 0.075, would you recognize that it is not reasonable? There are numerous websites that have practical problems for converting units. Then you can convert to a unique you understand. It can help you think about the inches on the map and inches on the ground as different units. Then, we need to write these conversion factors like fractions. You have just calculated how many inch you have to cover on the path. In fact, when you arrive at that point, you may not even need a calculator. But since this is the metric system, we can modify it so as not to have to hold many zeros in the head. Hide you want to be able to cancel OZ (so that the unit must be at the bottom of the conversion fraction) and IN3 (so that the unit must be on the upper part of the conversion fraction): once all the ones written Conversion fractions so that the original value is multiplied by them (see the last step), evaluated. Upcoming steps ok, I'm ready to try the evaluation. It is also a number It is larger than water density (which is 1 g / cm3) and we know that basalt is more dense than water (sinks)! (Sinking)! .pam Erwydd MM 3.0 SI THT GNIHTEMOS EB WHITE PAM or UOY Eruotaf Tsellams EHT EHT .MOTTOB DNA POT SSORCA YLPITLUM DNA) ESAC SOHT NI MM (STINU ETAIRPORPPA EHT LECNAC, YLLFI: OD UOY THT HTIW, TNOW THONE Uoy Stinu Taht If Me Mehent Egnarra or Rebmeser -m 2.7 NHT RANDIW ERUTAEF Then why nor Uoy .SniCarf Srotcaf Noisrevnoc Ehirw ot Evah EW, TXEN: srotcaf noisrevnoc etirporppa ETIO ETIRW S'TEL, TRANT? E Eruataven Taht nor) we (Edw WOH.) 000.42 = 1 RO MM 000.42 = MM1 - DNUORG EHT NO STINU 000.42 OT LAUQE SI Why EHT No Tinu 1 Taht Caurimem (000.42. 1 Fo Elex LanoitCarf A Sah Taht Why and HTIW Gnikrow ERA Uoy: 3 Melborp! Evoc Ekil Ekil - Ereht Gnihtemos Eb Tsum Erhtemos, OS! Rehtie Tlasab Fo Yletelpoc Eb eb Tomac Htr Htrud Ti, Revewoh .im ot Mk Noisrevnoc Eno Deen Yno Uoy, Mottob Emas Emas Emas Embhat "Sruoh" ECNIS EDIH .) ECNIS EDIH.: Evah Uoy Stinu EHT HCAE ROF ROF NOISREVNON NOISREVNON NOHT ELE ELE EV, Session Emos Us (srotcaf noisrevno etairporppa Enimared Edih: HTIW DNE OT TNAW UOY ST STINU ETHI EDIH EDIH .) NOITCARF and SA ETAIRPORPPA Nehw (Evah Uoy Stinu ETIW EDIH EDIH EDIH EDIH 54 YLETAMIXORPPA EVIRD NO .TINARG YLERITNE EDAM SI HTRAE EHT SISHTOPYH EHT TSET TSET Edica uoy, etinarg (tsurc Latnenitno No Dny Dny Dnuola Etutsa Na SA.)) MC Cibuc Ro (SMARG MC DNA (TNAW Tahw Ot) Teef Cibuc Ro (DNA DNA SDNUOP (Evah Uoy Tahw Rof SrotCaF Noisrevnoc EHT PU Kool Edih: HTIW DNE OT TNAW UOY ST STINU ETHI EDIH EDIH: NOITCARF and SA Stinu DNA Rebmun Er Ypoc .rewnsa Ruoy ETITLAVE EDIH EDIH .SSTINU LECNAC NO NEHT \ t DNE UOY DNA LECNAC TNOD TNOD THAT ST STINU TAHT OS EGNARRA OT REBMEMER? Etinarg Yletelpoc EB etinarg Eb Eb Hottrae Duboc, Evoba Noitamroof EHT Nevig .sehcní 5.81 SA Liart Eruasaem Eusaem DNA DLEA DNA .rebmun. 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Convert Density of your granite on g/cm3. Keep it in mind how you calculate! Now you have an idea of the size of the features These can be drawn on your map. If you got 0.75 or 75,000, would you recognize that it was not reasonable? Hide the interesting thing about the metric system ^A which is based in number 10. You can't help think of mm on the map and mm on the ground as unit different. It also means that when you do calculations, many times A is possible to cancel zeros. Open the link below to use while doing your calculations. Since the time of the waves of the earthquake, we also know that the density average of the earth about 5.5 g/cm3. Hide multiply fractions (through the upper and lower parts): hide divide the resulting number to get a response. Hide pounds to grams: 1 lb = 453,3924 G feet per cm: 1 foot = 30,48 cm feet at cubic feet: 1 ft * 1 ft * 1 ft = 1 ft3 cubic feet to cubic centimeters: 1 ft3 = 30.48 cm * 30.48 cm * 30.48 cm = 28.316 cm3 Please note what you have and what you want to end up with. First, think about what you have? (18.5 in on the map and on a scale) and what you want to know (how many miles 18.5 in represent on the ground). The units Do the originals cancel so that you end up with what the question is asking? Many of them are listed below. Hide this ^A a simple one-step conversion. Do you still need more practice? Hide that you want to be able to cancel LB (so that the unit must be at the bottom of the conversion fraction) and FT3 (so that the should be on top of the conversion fraction): Once you have written all the conversion fractions so that the original value is multiplied by them (see the last step), value. Yes. Now we multiply through the top and bottom (note out out laaá itavirra atlov anU !ailgim 7 .Aras enoisruse artson al ehc omairpocs :noizarf el omaihsirahc odnaug e .)irtla ad itallecnac onos ibmartne ©Añcrep Atinu ah non eroirefni oremun li odom ni inoizarf emoc 2 ossap lad enoisrevnoc id irrotaf i erevircs .idniuQ .arom/m ni olos eggel ortemihcat li .etnematanutrofS ?elovenioigar atsopsis anu A idnocsaN .ideip 42 acric agral ^A ehc acitsirettarac anu erappam elibissop A otos e arpos eracipitlom e Atinu el erallunna idniuQ :inoizarf el noc enoizauqe artson al omaillabats asoc amirp reP .ideip 182,3 = m 1 ^A jarpos knil idev (allebat allen otacnele enoisrevnoc id erottaf II ?enoizarf alled) jolta ni (erotaremun len onognetrappa Atinu ilauq , ^AoiC inoizarf el rep atairporppa enoizospsid al eratulaV im 4126.0 = mk1 erevircs elibissop ^A .idniuQ .issets es us eraroval e erapmats retop ad odom ni osse id us)90 52luJ Bk84 JFDP (taboreA(imelborp i ittat ah ehc oilgof nu eraciracs elibissop ^A .enifni !-Al inatroP .otlasab id etnemateipmoc attaf arreT anu ad atageips ertseve ^Aup)3mc/g 5,5(arreT alled aidem .Atisned al es eraloclap rep inoizamrofi etseuq etasU .) 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Write the available units (if appropriate as a fraction): hide write the units with which you want to finish: Hide determines the appropriate appropriate conversion (In some cases, there will be more than a conversion factor for each of the units you have): hide as "hours" remains the same at the bottom, you just need a conversion factor: km to mi. Then it determines that granite has a density of 171 pounds / ft3. Remember, the units cancel when a unit is in numerator and the other is in the denominator). First you need to convert map measurements for measurements on the ground. Otherwise, repeat steps 3 and 4 until you postpone with appropriate units: hide cancel km and end with Mi / h (which is what we want!) Multiply through the upper and lower part: hide if necessary, Reduce the fraction. Hide is a speed limit of about 46 mph (mi / h) a reasonable speed limit? See if you can determine solutions to the following problems that geologists face when working with maps. When you arrive, remember to log in with your username and password. On your bathroom, a block of 64 in 3 (4in x 4in) basalt weighs 116 ounces. What units must be in denominator (bottom)? But this is just as much, then we convert those inches to miles! First of all, we write appropriate conversion factors: 1 foot = 12 inches and 1 mile = 5280 feet. How does it work? Hide this is actually a two-step conversion problem. Write the units you want to finish: hide look for conversion factors for what you have (pounds and feet (or cubic feet)) to what you want (grams and cm (or cubic cm)). To start, write the fractional staircase as a fraction (with the distance on the ground at the top (since this is what we want to end with)). You have just calculated how many millimeters thick a function can be. 75 km / h Hide Write the units you have (if any case as a fraction): hide write the units you want to finish: hide to determine appropriate conversion factors (in some cases, there will be plus' of a conversion factor for each of the units which you have): hide "hours" from "hours" .adanac .adanac ni rac ruoy gnivrd era uoy taht enigami: 1 Melborp .Teef ot 2.3 Melborp ni rewnsa ruoy trevnoc. . MOTTOB EHT NO EMAS EHT

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