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Density Worksheet

Procedure

1. Use the data table below and the attached graph paper to plot the mass and volume of the 5 samples of the minerals galena below. Note: the resulting line you plot is the minerals density!
2. Calculate the density of samples 1-5 and place the value in the "density" column of the data table below.
3. Answer the questions below.

Sample	Size	Mass	Volume	Density (d=m/v)
1	small	15 g	2 cm ³	
2	↓	60 g	8 cm ³	
3		120 g	16 cm ³	
4		480 g	64 cm ³	
5	large	750 g	100 cm ³	

Questions

1. Use the completed graph to determine how much mass a sample of galena would have if its volume was 75 cm³.
2. Use the completed graph to determine how much volume a sample of galena would have if its mass was 300 g.
3. Describe the relationship between mass and volume shown by the graph.
4. How does the density of Sample 2 compare to that of Sample 4?
5. How did the density of the largest sample (5) compare to the smallest sample (1)?
6. What is the effect of sample size on the density of a material?
7. Describe the trick you were taught on how to change around the density formula to solve for different parts of it.

Bill Nye: Atoms, KEV

- Atoms are too small to be seen by a **what?** **Conventional or regular microscope**
- What two particles make up the nucleus of an atom? **protons & neutrons**
- Relative to human size, how far from the nucleus is the cloud electron? **580 meters**
- Atoms are mostly **empty space**.
- How many atoms could fit on the head of a pin? **1 million**
- Water can be decomposed with electricity by forming:
 - Micler gas
 - Hydrogen and oxygen** ----- correct --
 - Hydrogen and carbon
 - Carbon and oxygen
- What makes one atom different from another? **number of protons & neutrons**
- How many naturally occurring elements are there? **92**
- What is a linear accelerator used for? **Separate neutrons from nuclei -- speeding up atom movement - used for delivering external beam treatments to some cancer patients**
- Where are quarks located? **inside protons & neutrons (nucleus)**

True or False?

11. Atoms are mostly space. **True**
12. The subatomic particles in an atom do not move. **False**
13. The nucleus occupies most of the space of an atom. **False**
14. There is space between molecules in a mixture. **True**
15. Each element has a specific number of protons in the nucleus. **True**
16. Everything is either matter or energy. **True**



Directions: Answer as many questions as you can while viewing the movie "Finding Dory." Some of the questions will have the answer at multiple points in the film.

1. The plant-like organisms seen during the opening credits aren't really plants, What are they? _____
2. What is the role of the plant-like organisms from question 1 in the ocean ecosystem?

3. Name 6 things Dory encounters underwater that are pollutants/do not belong in the ocean.

4. What kind of relationship do the clown fish (Nemo and Marlin) have with the anemone?

5. Nemo's class is going on a field trip to watch the migration of the stingrays. What is migration? _____
6. Dory is caught by two scientists outside of the marine life institute. What is the reason that the scientists take Dory? _____
7. What are some ways we can prevent pollution of the ocean? _____
8. Hank is able to blend in with his environment, What is this adaptation called? _____

Name: _____ Date: _____

How the Universe Works – The Big Bang Video Worksheet

1. Everything in the universe is made from matter created in the _____ of the Big Bang.
2. There are three main questions about the Big Bang that are considered the holy grail of physics. What is one?

Answer:
3. Our big bang is just one of many big bangs in an _____ of universes.
4. At the beginning of the 20th century, the convention wisdom is that the universe is _____ and _____.
5. Edwin Hubble discovered that galaxies are moving _____ from Earth at incredible _____. This is the first real evidence of the big bang.
6. Galaxies that are twice as far away are moving _____ as fast. This became known as Hubble's Law.
7. The universe is _____ billion years old.
8. Everything that matters to us today could have arisen out of _____.
9. The beginning of everything was a single point of _____ density and infinite _____ in a region smaller than a single atom...a point of raging energy.
10. The first force to emerge from the big bang was _____.
11. If gravity were weaker than it is, everything would fall apart and no galaxies could form. If gravity were stronger than it is, everything would end up in _____.
12. Immediately after the big bang, a shockwave of energy _____ the universe in a fraction of a second (this is the "inflation").
13. Temperatures during the big bang were so hot that the atoms of your body would _____.
14. What equation shows that we can get matter out of energy in the universe?
15. Early in the universe there were no atoms, but there were tiny, subatomic _____.
16. What is the one thing that can destroy a universe before it even gets started?
17. Antimatter has the _____ charge from regular matter.
18. For every billion particles of antimatter, there were _____ particles of matter. That was enough to build the universe.

The site also has links to other immigration resources, as well as suggested reading. Use the same tool to search for the daily subject; Look under "Social Sciences" for "Education - General", "Education, Special Topics", and "Theory and Practice of Education." Students can use HomeWorknyc "Applications" right from their social media pages to help them with the homework. New York City Historical Postcards: A fascinating historical peek in the five boroughs of New York City from the 1890s to the 1920s is provided through the 500 postcards recently added to NYPL's digital collections. IMPORTANT: Due to the volume of film worksheets on this site, I have moved them to a new domain: . Make the learning fun! ReviseGamezone.com Thank you for your contribution! More than 800,000 images, maps and research documents to increase your curriculum in the classroom. Go to HomeWorkNYC> Past events, instructional materials, as well as other multimedia resources useful for your classroom work. This was done to keep this site more focused on the content of special sites. Try searching your neighborhood to open the maps and photos of how it developed! Go to digital collections> Curated resources to support teaching and learning, many with interactive elements or curriculum ideas. Loading... Emigrant City: Find images and voices to use with your students, contribute to a Google My Maps to point out special sites, share immigration stories and find lesson plans. Our holdings include: Curriculum Administrator, Education, Education Digests, Educational Leadership, Secondary School Journal, Education Journal, Educational Research Journal, Learning Disabilities Journal, Learning Disabilities Journal, notyaIC notyaIC madA ,enuhteB doelcM yraM ,tnemiger ht45 sitesuhcassaM ehT ,ssalguoD kcirderF ,skuttA SUPSIRC aAbah ,amabO kcaraB ed setna ,sesnedinuodatsE sacitAlop y sonaciremaorfa ,sorto y ralocsE acetoiIbIB al ed oiraiD ,arutceL ed ,samet ,samet ed dadeirav ailpma anu erbos sadarran y aenAl ne savitisopaid ed senoicatneserp saiporp sus eerC ,LPYN al ed ejazidnerpA y azna±AesnE ed samargorP sol a oyopa osoreneg us rop noitadnuoF eirteP notiM y lIorraC ehT a eecedarga kroY aveuN ed acilbAP acetoiIbIB aL > soediv sol sodot reV ,LPYN ed selatigid senoicceloc sal odnazilitu alua le arap sQBD noc sacitjAmet savitcaretni savitisopaid ed nAicatneserP > aenAl ne senoicisopxe sal sadot reV ,labolg argen aicneirepxe al erbos soidutse y nAicaterpretni ,elbaifnoc nAicamrofni a osecca ecerfo grubmohcS latigiD ,socim©Adaca y serodaruc sodacatsed ed aicneirepxe al noc odnatnoC grubmohcS latigiD ,soniugroyoen sore±Aapmoc ed »Aellac al ne ef«A ed sotoF y sovitacude selairetam ,saicneerc ed ametsis adac ed sodargas sotxet sosomreh eyulcnI malsI ,omsinaitSiC ,omsAaduJ :seeF serT ,serodacude arap sosruceR rartnocne arap atsiver ed olutAt rop sotad ed sesab sartseun ne euqsuB > daerhtecioV a rI ,sonadaduic sus sodot arap selaer naes anaciremA aicarcomeD al y sodinU sodatsE euq recah arap odnahcul ,anamuh dadingid al y datrebil al rop anaciremaorfa ahcul al ed sanAoereh y seor©Ah sorto ed eires anu y ,rJ

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