
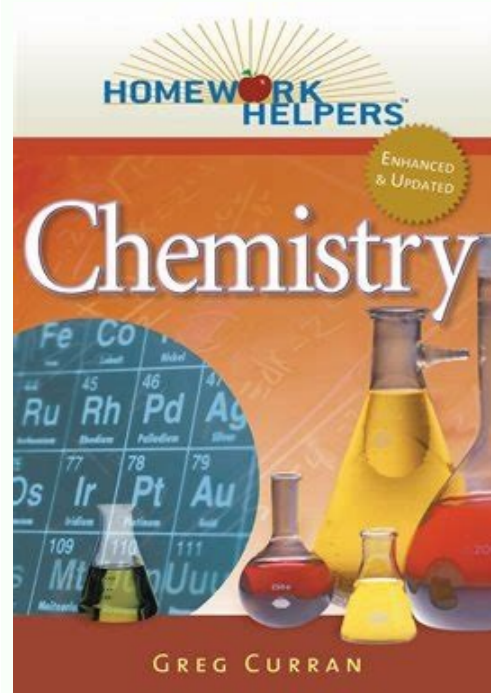
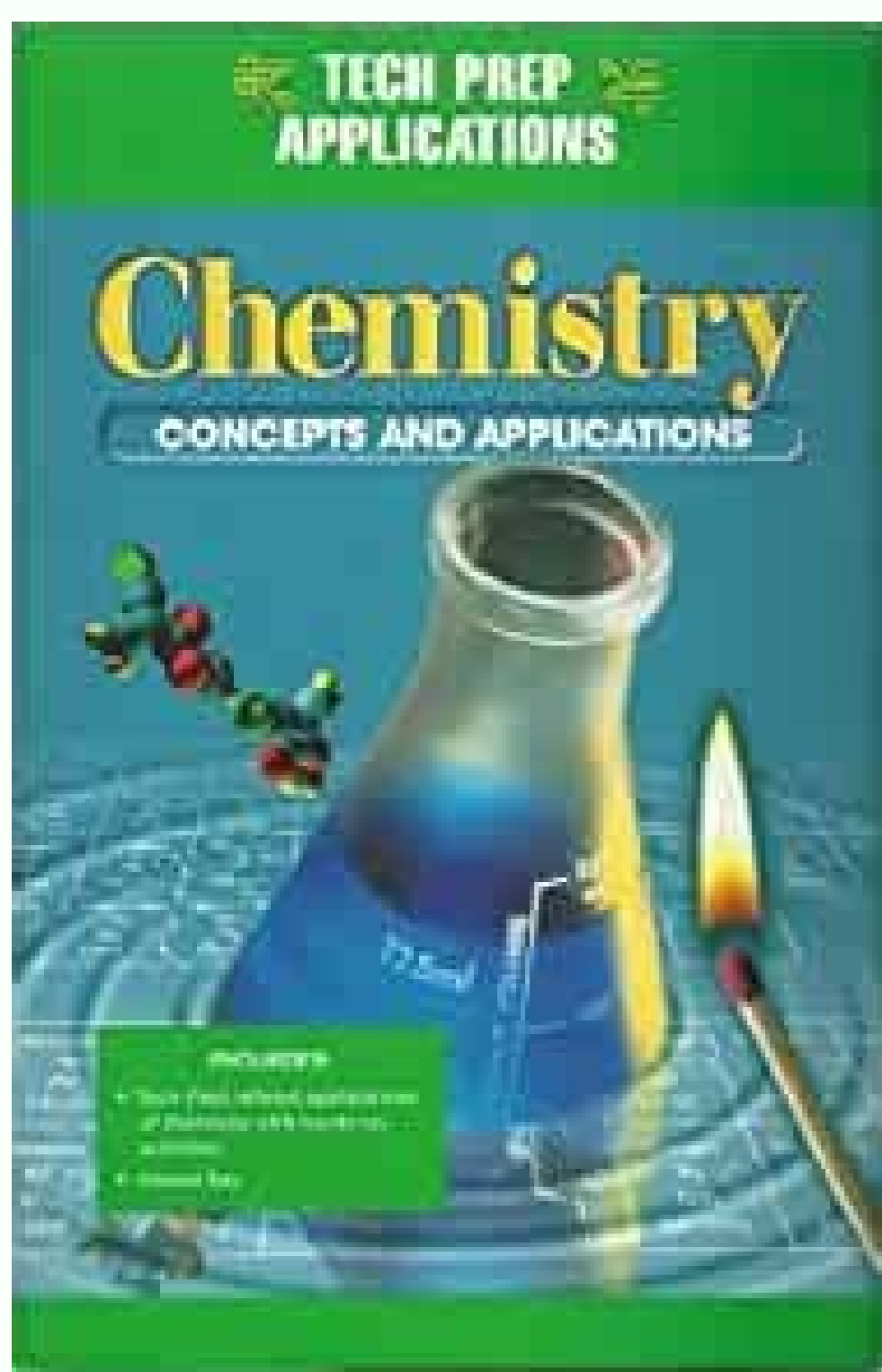


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**KEY**

Chemistry 11 Activity on Trends on the Periodic Table

**Part 6—Densities**

Log on to the internet and select the site (see Chem 11 Webpage-Unit 8)  
<http://www.webelements.com/webelements/properties/text/image-line/density.html> This will give you a graph showing the densities of the elements. Use the information to answer the following questions:

- Which nine elements are the most dense on the table? W, Re, Os, Ir, Pt, Au, U, Np, Pu  
 Under "Full table charts" on the left, click "Flash" From the panel below at the bottom of the chart, select "Ball Chart" Hold the cursor over the 9 biggest balls to get names and densities.
- What is the trend in densities as you move down the column of Alkali Metals? increase  
 Click "Group 1" under "Group charts" on the left.
- Do the rest of the groups have a similar trend in density as you move down? yes  
 Click other Groups.
- Suggest why alloys containing Aluminum and Magnesium are used in airplanes?  
 (Hint: How do their densities compare with most other common metals?)  
Low density and strong when alloyed.
- What is the density of Titanium? 4507 kg/m<sup>3</sup> What about Aluminum? 2700 kg/m<sup>3</sup> Why might a person spend a huge amount of money for a titanium bicycle frame when it is more dense and far more expensive than aluminum? Much higher strength/weight ratio. Can have thinner tubes with the same strength
- As you move from left to right within a period, are the most dense elements on the left, on the right, or in the center? center
- The approximate density of air is about 1.3 g/cm<sup>3</sup>. From your general knowledge, which gases are less dense than air? H<sub>2</sub> & He What would these gases be used for?  
airships The gas with the second lowest density is used for this purpose more commonly than the least dense gas. Suggest a reason for this.  
The least dense gas (H<sub>2</sub>) is highly flammable and explosive when mixed with air.
- Radon gas is a dangerous radioactive gas that has been linked to lung cancer. In which part of a home would it most likely be found? basement  
 Hint: Where is it in the column? How dense would it be compared to other gases?
- If you got notice that chlorine gas had spilled and was heading your way, where would it be safest to go? up high (Cl<sub>2</sub> is more dense than air)
- What method is often used to separate gold from gravel? panning  
 What property of gold makes this process useful? high density
- What would happen if you put a nickel in a beaker containing liquid mercury?  
It would float on top of the Hg. Would the same thing happen if you put a piece of platinum in the mercury? no  
 Explain. Pt has a higher Density than Hg

Activity on Trends on the Periodic Table

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