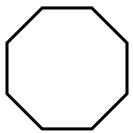
Science Nine Unit 1—Chemistry

## Science 9-Chemistry

## Worksheet 5-1—Household Chemicals

		Name			
		Due Date			
Ó	10	Show Me Han	nd In		
		Correct and Hand In Again			
Read	l pages 80-93 of SP to help you ar	nswer the following questions	:		
1.	What information is supplied by labels on products that you buy in the store?				
2.	What types of compounds cannot be removed by using water alone?				
3.	In a molecule of a <b>soap</b> or <b>detergent</b> molecule, one end is attracted to material.				
4.	The soap or detergent breaks big droplets of grease or oil into				
5.	Acids taste				
6.	Bases tastereact with		and		
7.	Substances which are neither acids nor bases are said to be				
8.	What is an acid-base indicator?				
9.	Name <b>six</b> substances which can be used as acid-base indicators. (See data tables on p. 85)				
Now,	turn to page 87 and continue				
10.	In what ways can <b>strong acids</b> be dangerous?				

- 11. What household products are **strong bases** found in?\_\_\_\_\_
- 12. **Weak acids** like orange juice can sting if you get them in your eyes, but are they really harmful? \_\_\_\_\_
- 13. Draw the label that you might see in materials containing strong acids or bases. (On p.87)



- 14. When an acid and base are mixed together, there is a reaction called \_\_\_\_\_\_
- 15. In the process of **neutralization**, an acid and a base form \_\_\_\_\_ and a \_\_\_\_\_
- 16. Write a word equation which shows the reaction between **hydrochloric acid** and **sodium hydroxide**.
- 17. What common weak acid can be used to neutralize spills of strong bases? \_\_\_\_\_
- 18. What common weak base is used to neutralize acid spills?
- 19. Name some common household products that are useful because they are **NOT** chemically reactive.
- 20. What is meant by a **reactive chemical**?
- 21. Name fours examples of types of compounds which are useful because they ARE reactive.
- 22. Where might you first look for first-aid treatment which might be used with a household product?

  If you can't find it there, who could you contact?
- 23. Tell what each of the following **WHIMIS** symbols stand for?



Answer

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	(b)	Answer	
	c)	Answer	
		Answer	
	e)	Answer	
	f)	Answer	
24.	What are three <b>immediate</b> effects of <b>sulphuric</b> (battery) acid?		
25.	Leaded gasoline contains a compound called <b>tetraethyl lead</b> . What are three effects of this chemical?		
	Do these effect	s happen immediately?	
26.	Why are factory wastes sometimes easier to deal with than household wastes?		
27.	What element were workers in <b>Cominco</b> in Trail B.C. contaminated with recently?		
Use	Table 5.4 on p.	91 to help you with the following questions:	
28.	What is the actual chemical name of "caustic soda"		
29.	The initials "PCP" stands for <b>pentachlorophenol</b> . Where it is used?		
30.		me of "Ca(ClO) <sub>2</sub> " be used in the home?	

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The chemical name for "wood alcohol" is	What is it
used for in the home?	
What is the name of a compound used in <b>nail polish remover</b> ?	
What is it's chemical formula?	
How is it harmful?	
"Muriatic acid" is also called	
What is it used for?	
What are it's main hazards?	
What household products use <b>petroleum</b> products?	
What are the two main hazards of these?	
What in the name of compound found in <b>contact cement</b> ?	
	what is the name of a compound used in nail polish remover? What is it's chemical formula? How is it harmful?  "Muriatic acid" is also called What is it used for? What are it's main hazards?  What household products use petroleum products?

Make a nice drawing here if you want.