Acids and Bases in Solution

Lesson 2 Acidic, Basic, and Neutral Solutions



Grade 8 Science Content Standards—5.e: Students know how to determine whether a solution is acidic, basic, or neutral.

	Skim Lesson 2 of your book. Write three questions that come to mind. Look for answers to your questions as you read the lesson.
	1
	2
	3
	Define atom using your book or a dictionary.
atom	
Vocabular acid	Write a paragraph using all the vocabulary terms in a way that shows their meanings.
hydronium ion	
base	
pH indicator	
pH meter	
Academic Vocabular approximate	Define approximate, using your book or a dictionary. Then use it in a sentence to show its scientific meaning.
Phy own	

Lesson 2 Acidic, Basic, and Neutral Solutions (continued)

-Main Idea-

Details

What are acids and bases?

I found this information on page ______.

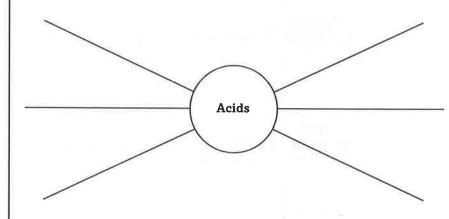
Identify at least two examples of everyday acids and bases.

Acids	Bases

Acids

I found this information on page ______.

Summarize important facts about acids. List one fact on each line.



Bases

I found this information on page ______.

Organize information about bases. Complete the diagram.

Definition:	Common Properties:	
Examples:	Bases Common Uses:	

SUMMARIZE IT

Summarize the main ideas of the above sections with two

bullet points.

Lesson 2 Acidic, Basic, and Neutral Solutions (continued)

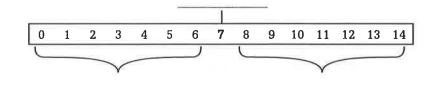
-Main Idea-

Details

What is pH?

I found this information on page ______.

Label the locations of acids, bases, and neutral substances on the pH scale below. Draw arrows to show how the concentrations of hydronium ions and hydroxide ions change across the pH scale.



Hydronium ions

Hydroxide ions

I found this information on page _______.

Complete the equations below to compare pH values.

A substance with pH 2 and a substance with pH 1

- = -; 10^n = - times more acidic

A substance with pH 5 and a substance with pH 2

_____ = ____; $10^n =$ _____ = ____ times more

I found this information on page ______

Define neutralization.

SUMMARIZE	Summarize three main ideas of the above sections using
bullet points.	
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9-1-	

Name ______ Date _____

Lesson 2 Acidic, Basic, and Neutral Solutions (continued)

-Main Idea∽

Details

What is pH?

I found this information on page ______.

Label the neutralization reaction below to identify its reactants and products as an acid, a salt, a base, and water.

+ $Mg(OH)_2$ 2HCl

 $MgCl_2 + 2H_20$

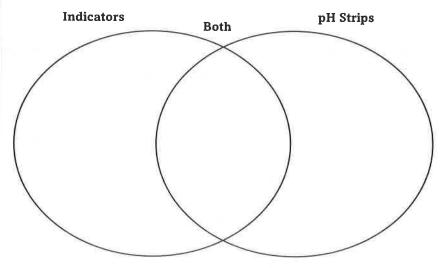
How is pH measured?

I found this information on page ______.

Compare and contrast the methods for measuring pH. Complete the Venn diagram with the facts below. Then describe what a pH meter is.

change color

- litmus paper is an example
- universal indicator is an example
- approximate pH



A pH meter is an ______ with an _____ that is sensitive to the ______ in a solution.

SUMMARIZE	ì
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Summarize three main ideas of the above sections.

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