Section 5.1

Use with textbook pages 220-229.

Acids versus bases

1. Compare and contrast acids and bases by completing the following table.

	Acids	Bases
definition		
рН		
what to look for in chemical formula		
production of ions		
electrical conductivity		
taste		
touch		
examples		

2. Classify each of the following as an acid or a base.

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Names of acids

1.	An acid will have the suffix "-ic acid" at the end of its name when the negative ion has a suffix For example, "hydrogen carbonate (H_2CO_3) " is called "carbonic acid".
2.	An acid will have the suffix "-ous acid" at the end of its name when the negative ion has a suffix For example, "hydrogen sulphite $(\mathbf{H_2SO_3})$ " is called "sulphurous acid."
3.	What is the name of each of the following acids?
	(a) H ₂ CO ₃
	(b) CH ₃ COOH
	(c) H ₃ PO ₄
	(d) HCIO ₂
	(e) H ₂ SO ₃
	(f) HNO ₃
	(g) HF
	(h) HCI
4.	What is the chemical formula for each of the following acids?
	(a) hydriodic acid
	(b) sulphuric acid
	(c) perchloric acid
	(d) nitrous acid
	(e) chloric acid
	(f) hydrobromic acid
	(g) phosphorous acid
	(h) hypochlorous acid

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