_____ Period: _____ Date: _____

Properties of Acids and Bases Guided Notes – Student Edition

What are Acids? Acids are a group of chemicals that can be found widely in _____ and also in the _____. They contain at least one ______ atom in their chemical structure and will release these hydrogen atoms as hydrogen (____) ions when the acid dissolves in water. (H^+) **Properties of Acids** Like many other groups of chemicals, acids have several ______ that we can use to identify them. All acids: SOUR Acid 1 2 3 4 5 6 Salt + Wate *Turn* _____ *Have a pH of* ____. *Taste* _____ Cancel out Corrosive litmus paper) bases. **Types of Acids** There are two main types of acids - _____acids and ______acids. • Mineral acids as their name suggests are made from ______such as

- chlorine, sulfur etc. They are generally much than organic acids and can corrode or '_____at substances such as metal, _____and skin.
- Organic acids are those which contain ______. These acids are ______acids are are not as dangerous. These can be found in many fruits and baking agents.



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The table below summarizes the different acids that you will encounter in this unit.

Acid	Туре	Formula with ball and stick model	Found in
Hydrochloric	Mineral		Lab acid
Sufuric		H ₂ SO ₄	 Lab acid Fertilizers
Nitric	Mineral		 Lab acid Pigments and dyes Explosives
Acetic		CH3COOH	•
Citric	Organic		 fruits Flavoring and preservatives in food.
Tartaric	Organic		 Baking agents , Tea



Name: ______ Period: _____ Date: _____

Properties of Acids and Bases Guided Notes – Student Edition





Properties of Bases

Like acids, bases have properties which allow us to identify them. All bases:



Bases are excellent at dissolving grease and oil and are often used in _					
around your home, because many stains and messes are	in nature.	Your skin is			
covered in oils which are acidic, when a base like	is used	, it dissolves those			
oils producing the slippery, soap effect . Bases can also be found in window cleaner,					
tablets or powder, soaps and bodywashes	s, and				



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Examples of the bases you may use in the school lab are found in the table below:

Туре	Formula:	Examples
metal oxides		Magnesium oxide, Sodium oxide, Na ₂ O
metal hydroxides	OH-	Sodium hydroxide, NaOH
		, Ca(OH)2
metal carbonates	CO ₃ ²⁻	Copper carbonate, CuCO ₃
		Calcium carbonate,
metal hydrogen carbonates		Sodium hydrogen carbonate,

