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Name: Date:				
Notes: Types of Solutions				
What can water dissolve well?	<del>-</del>			
Why is water a good solvent?				
What about water never changes?				
What happens to a substance when it dissolves?				
Describe the key characteristic of each type of solution below	ow:			
Saturated solution:	<del>-</del>			
Unsaturated solution:				
Supersaturated solution:				
Describe how to supersaturate a solution?				
What is a <b>seed crystal</b> ?				
1. If 30 grams of NaCl were dissolved in 100 grams of water best describe the solution?				
A saturated B unsaturated C  2. If 150 grams of NaClO <sub>3</sub> were dissolved in 100 grams of wa	C supersaturated			
would best describe the solution?				
	C supersaturated			
3. If 40 grams of NaCl were dissolved in 100 grams of water at 105°C, which of these terms would best describe the solution?				
	C supersaturated			
Define <i>conductivity</i> :				
Does water conduct electricity very well?				
Define <i>electrolyte</i> :				
Why is water so dangerous around electricity?				
What two things make a compound and electrolyte?				
1				
2				

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What must happen to these compounds before they will be able to conduct electricity?

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## Steps to determining if a substance is an electrolyte:

#### **Step 1: Determine if the substance is ionic or covalent.**

If it is covalent, it is NOT an electrolyte. If it is ionic, continue to step 2.

## Step 2: Determine if the ionic compound is soluble.

If the compound is insoluble, it is NOT an electrolyte.

## IF THE COMPOUND IS SOLUBLE AND IONIC, THEN IT IS AN ELECTROLYTE.

s CuSO₄ an electrolyte? Explain	
s C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> an electrolyte? Explain	
s CaCO₃ an electrolyte? Explain	
Why doesn't water conduct electricity very well?	

#### Mark each electrolyte with an E, mark each nonelectrolyte with an X.

CO	PbI <sub>2</sub>	Na <sub>2</sub> CO <sub>3</sub>	Pb(NO <sub>3</sub> ) <sub>2</sub>
AgC <sub>2</sub> H <sub>3</sub> O <sub>2</sub>	AgCl	SiCl <sub>4</sub>	Li <sub>2</sub> CrO <sub>4</sub>
SiS <sub>2</sub>	PBr <sub>3</sub>	CaBr <sub>2</sub>	Na NO <sub>3</sub>

