

Acids and Bases

Review chapter 5.1

List some common acids and bases that you may encounter in your life:

Role	Acid or Base and Name
carbon dioxide gas dissolves in the water in your blood	
responsible for passing on inherited characteristics	
toxic to humans, so your body converts it to urea ((NH2)2CO)	
helps your stomach to break down your food	
Counteracts stomach acid to protect the rest of the digestive system	
used in producing soft and liquid soaps	
vitamin C	
commonly called baking soda	
used in automobile batteries	
vinegar	
found in drain cleaners and oven cleaners	

Read 5.2 Environmental Roles of Acids and Bases

Describe four ways that soil pH can affect plant soil.

How do neutralization reactions aid in the following situations:

- 1. Agriculture
- 2. Acid Reflux
- 3. Bee stings
- 4. Processed foods
- 5. Eating fish

What is Acid Precipitation?

How does acid precipitation occur (cause, chemical reactions, sources)?

What are three problems that are caused by acid precipitation?

Why are some lakes more sensitive to acid precipitation than others?

How can we solve the environmental problem of acidified lakes? (Include the chemical reaction)

What are two ways technology can reduce the chances of creating acid precipitation?

What are heavy metals and give some examples along with their sources?

What are some effects of heavy metal accumulation?

Explain the problem and solution of acid leaching.