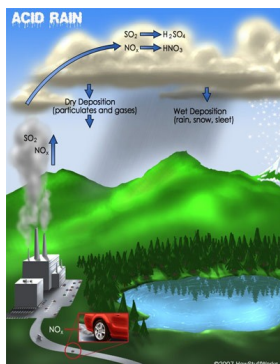


What is Acid Rain?

Acid rain is rain that has higher than normal amounts of nitric and sulphuric acids.



These acids come from factories that burn fossil fuels for power such as coal. The wind can blow the acid over hundreds of miles.

Did You Know?

- ⇒ There needs to be acid in lakes and soil. It only becomes a problem when there is too much acid.
- ⇒ Acid can come from natural sources such as volcanic emissions and ocean spray.

Christa's Quiz

Take the quiz! What do you know about acid rain?

What are the harmful chemicals in acid rain?

- ☐ Fossil fuels
- ☐ Nitric and sulfuric acids
- ☐ Phosphoric acid

How can acid rain be prevented?

- ☐ Add scrubbers to smoke stacks
- ☐ Cap smoke stacks to trap acid
- ☐ Burn only coal for power

What is a problem that is caused by acid rain?

- ☐ Destroys buildings
- ☐ Damages forests
- ☐ All of the above

What is a disadvantage to using scrubbers in smoke stacks?

- ☐ Scrubbers break often
- ☐ Scrubbers are expensive
- ☐ Scrubbers do not work

Comments:



ACID RAIN

Acid rain is harming our environment. We need to solve this problem before it is too late.

Acid Rain is Harmful

- ⇒ It causes problems for people with asthma and lung disease because it makes the air toxic.
- ⇒ It harms lakes and rivers. It raises the acid level of the water which kills fish.
- ⇒ It harms the forests because it changes the acid level of the soil. This causes trees to die.
- ⇒ It destroys buildings and statues made out of limestone.



Acid rain destroys forests.

We Can Prevent Acid Rain

There are solutions to acid rain:

- ⇒ Clean the smoke coming from smoke stacks on factories using scrubbers.
- ⇒ Design cars that make cleaner emissions.
- ⇒ Use less fossil fuels, such as coal, for power.
- ⇒ Use more alternative energy sources such as wind and solar power.
- ⇒ Create government regulations such as limiting car and factory emissions.

Scrubbers can be used to remove harmful toxins.



Scrubbers

Advantages	Disadvantages
Removes toxins from smoke stacks.	Some scrubbers do not remove nitrogen oxide which is a cause of acid rain.
Removes 80—95 per cent of the sulphur dioxide.	It is costly to add a scrubber to an existing factory.
Reduces acid rain which helps the forests, waterways, and buildings.	Scrubbers produce a liquid sludge that must be removed or stored.



We can prevent acid rain!