

## Acid Precipitation

Learning Goal: To learn about what acid rain is, how it is caused and what can be done to reduce it.

### Part A:

Watch the following video:

<https://www.youtube.com/watch?v=Nf8cuvl62Vc>

Answer the questions from the video:

- 1) What is the formula of sulphuric acid?
- 2) What is the formula of nitric acid?
- 3) What acid is naturally present in rain?
- 4) Complete this sentence: "As pH increases, acidity \_\_\_\_\_"
- 5) What organisms form coal?
- 6) Name the two gases formed when coal and oil are burned.
- 7) Describe in at least 2 sentences how acid rain is harmful.

Part B: Go to:

<https://www.epa.gov/acidrain>

Click on the link titled "What is Acid Rain?" and answer the following questions:

1. What is acid rain?

2. Fill in the blanks:

Acid rain results when \_\_\_\_\_ and \_\_\_\_\_ are emitted into the atmosphere and are transported by \_\_\_\_\_ and \_\_\_\_\_ currents. The \_\_\_\_\_ and \_\_\_\_\_ react with water, oxygen and other chemicals to form \_\_\_\_\_ and \_\_\_\_\_. These then mix with water and other materials before falling to the ground.

List the three major sources of SO<sub>2</sub> and NO in the atmosphere

1.

2.

3.

4. List the two forms of acid deposition and give an example of each

1.

2.



Part C: Go to

[http://www.dax.ca/air/acid-rain\\_e.shtml](http://www.dax.ca/air/acid-rain_e.shtml) and read the section Effects of Acid Rain.

Complete the table below summarizing each effect

Effect of Acid Rain	Key Points
Lakes	
Forests	
Human Health	
Corrosion	
Acid Rain and Other Pollutants	



Part D: Watch the following video about reducing acid precipitation

<https://www.youtube.com/watch?v=1kSFcsXxBaw>

List 3 ways that the video described that can be used to help reduce acid precipitation.

- 1.
- 2.
- 3.