

Name _____

**Training session
for science and technology
resource persons**



TEACHERS' LOGBOOK

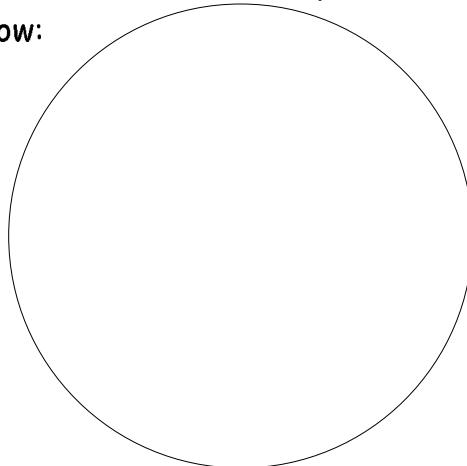
Brigitte Loiselle ADP
Daniel Mamane ADP

APRIL 2005

HYDROLOGY

World's water reserves

Indicate the percentage of fresh water and salt water on the Earth's surface in the pie chart below:

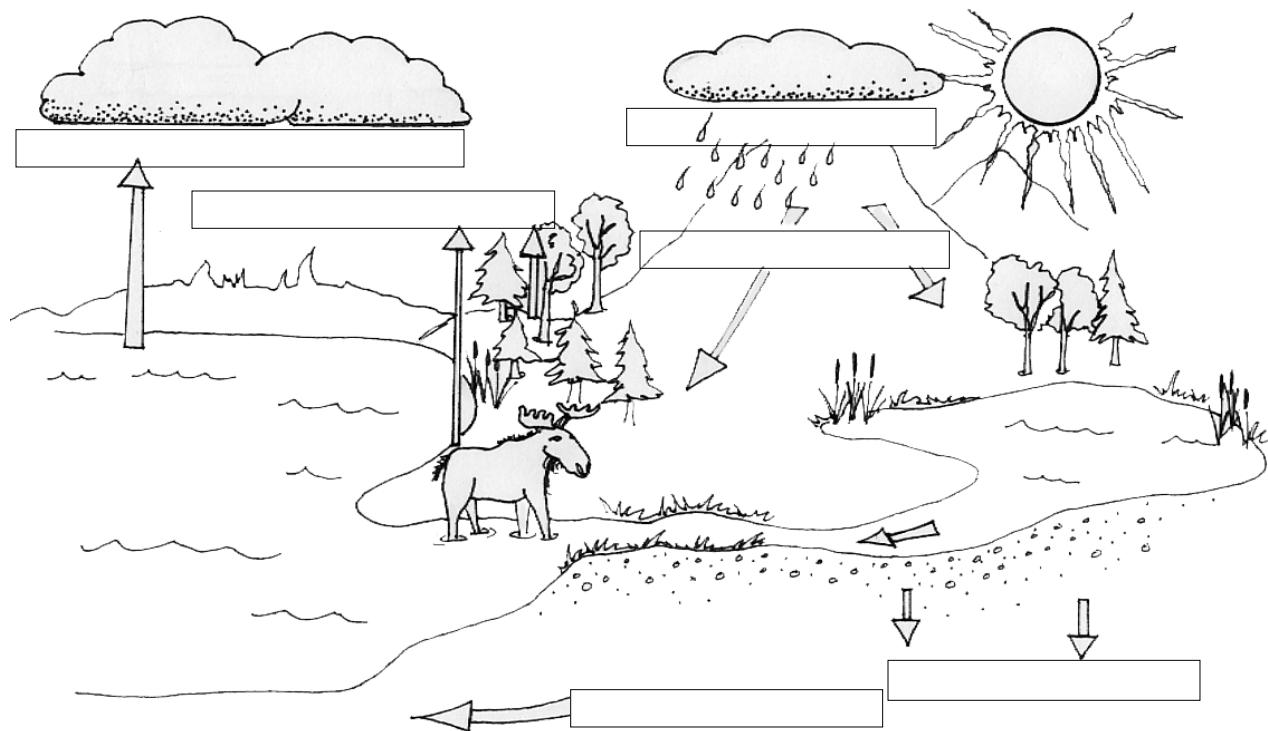


Legend :

Title : _____

The water cycle

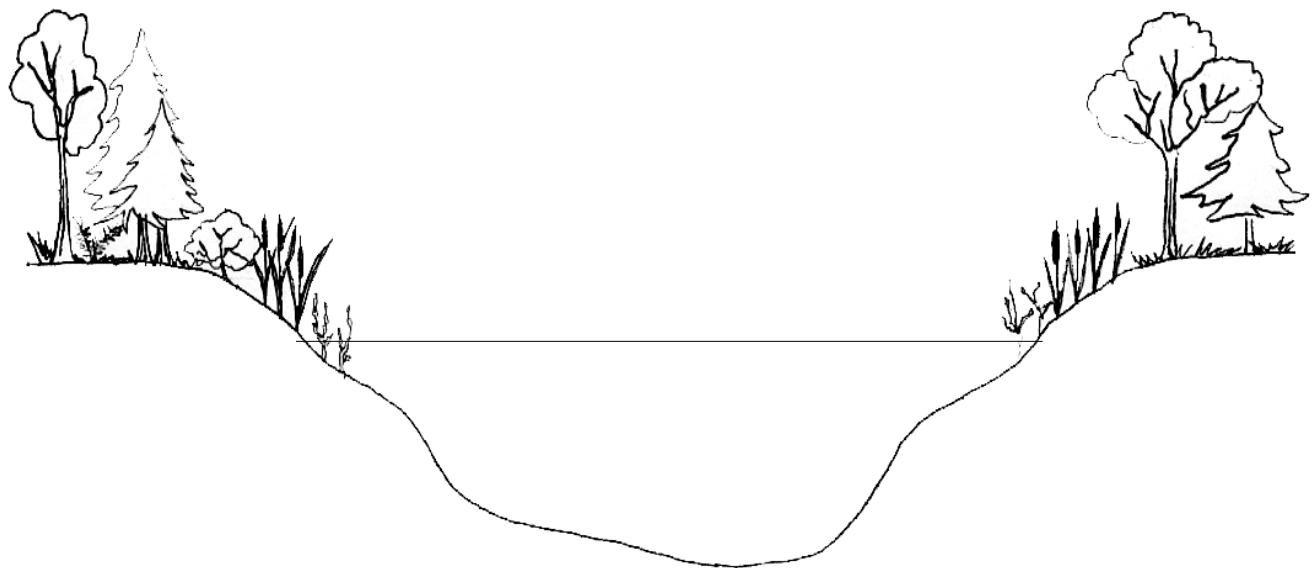
Complete the following diagram:



What changes occur in water during runoff and infiltration?

What are the main uses of water for living organisms?

What happens during mixing in a lake?

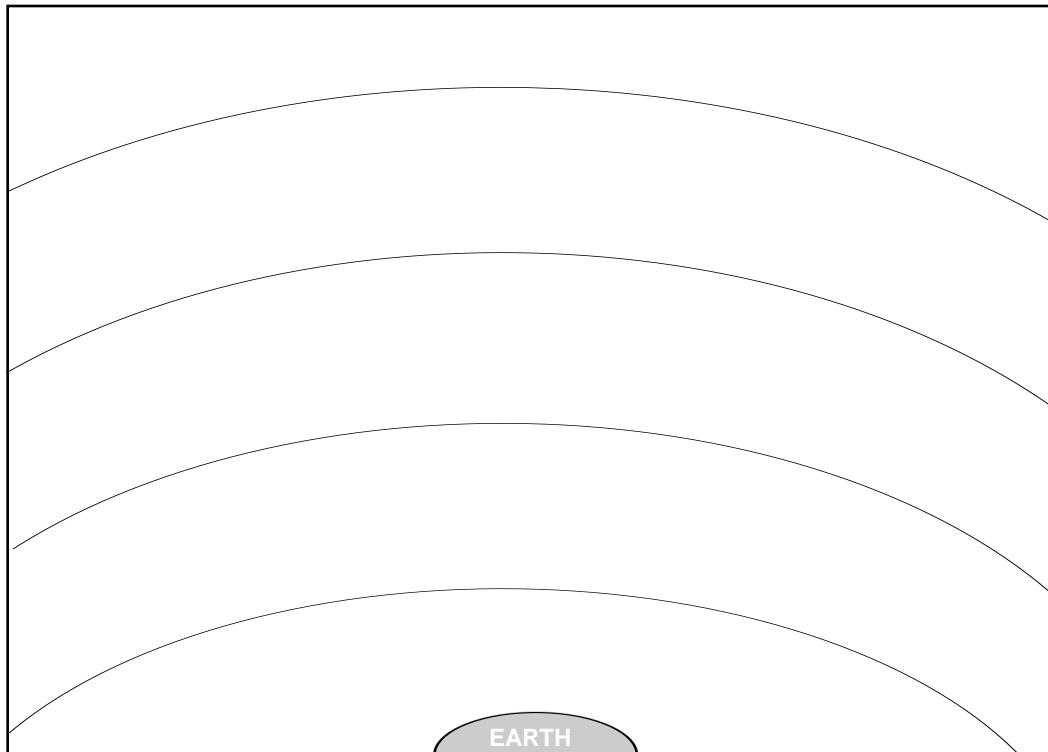


What are the causes and effects of spring acid shock?

METEOROLOGY WORKSHEET

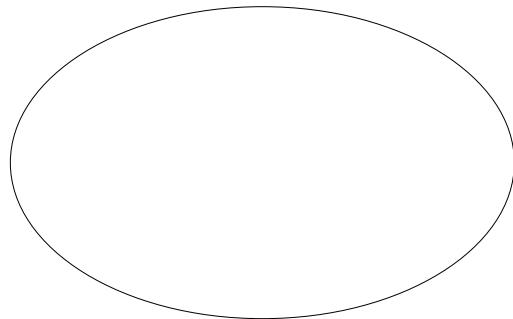
Atmosphere

On the diagram below, name the layers of the Earth's atmosphere and describe their characteristics



Air composition

On the pie chart below, indicate the percentage of the main constituents in air.



Legend :

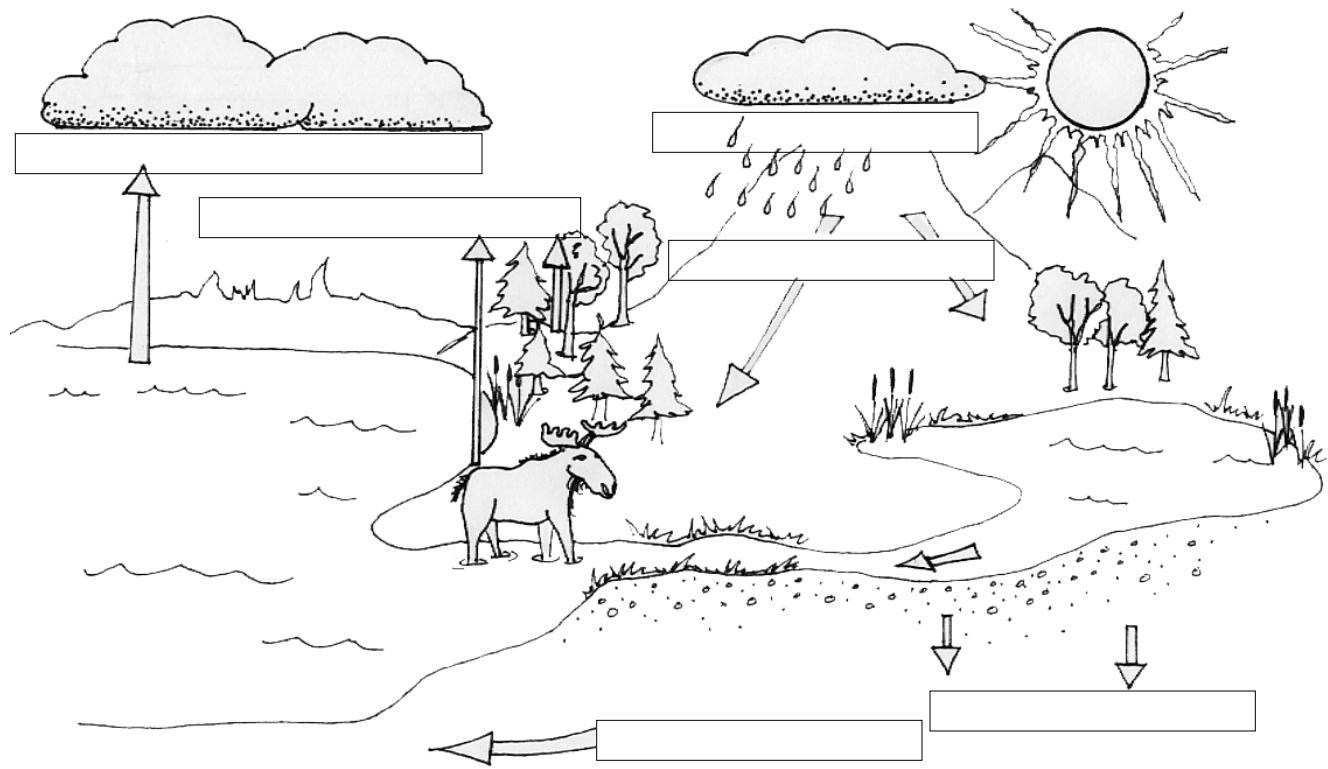
Title : _____

Label the phase changes indicated by the arrows in the diagram below.



Water Cycle

Complete the following diagram:



What are the main pollutants in the troposphere and what impact do they have?

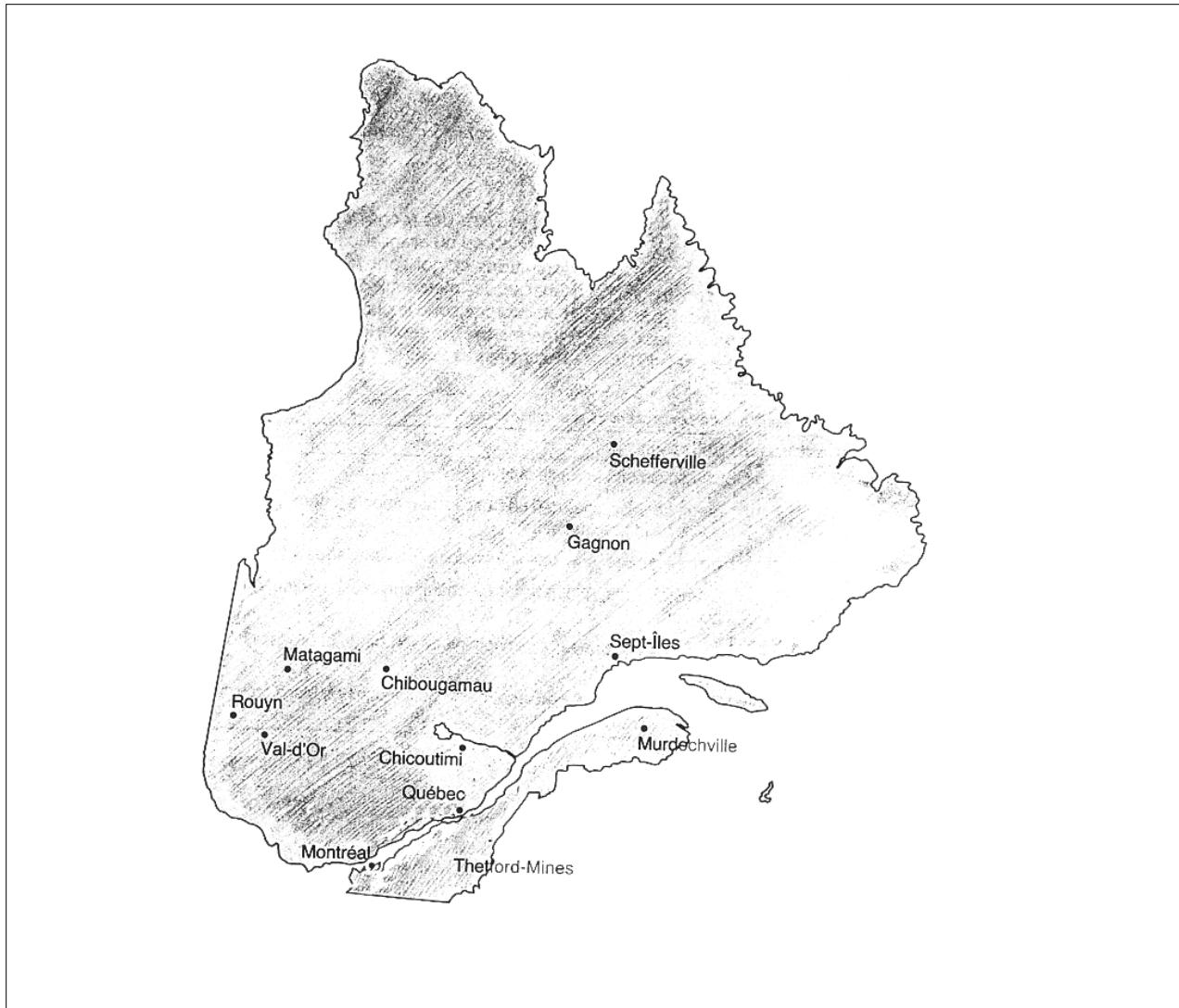
.....

.....

.....

.....

Indicate on the map below how air masses circulate in Quebec.



GEOLOGY WORKSHEET

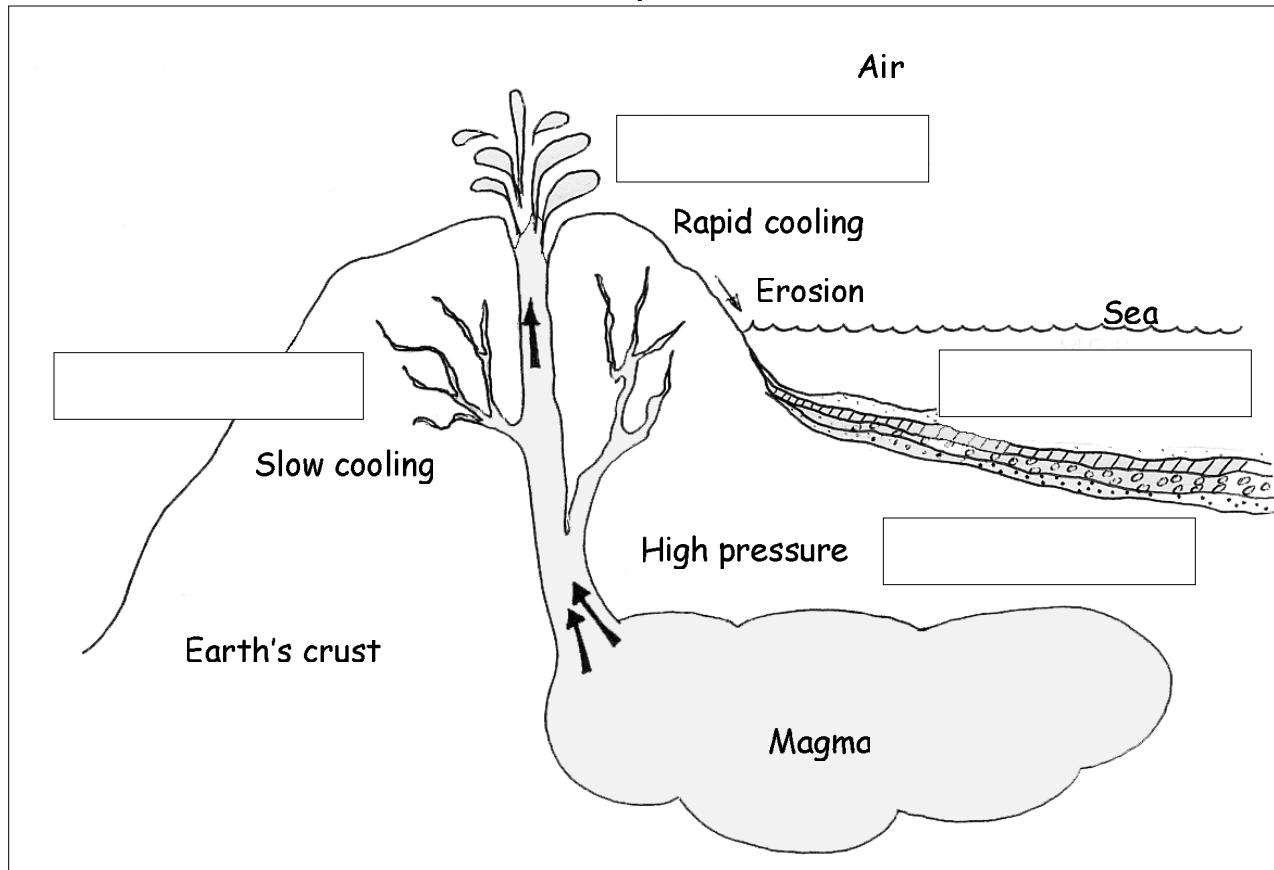
What is a rock?



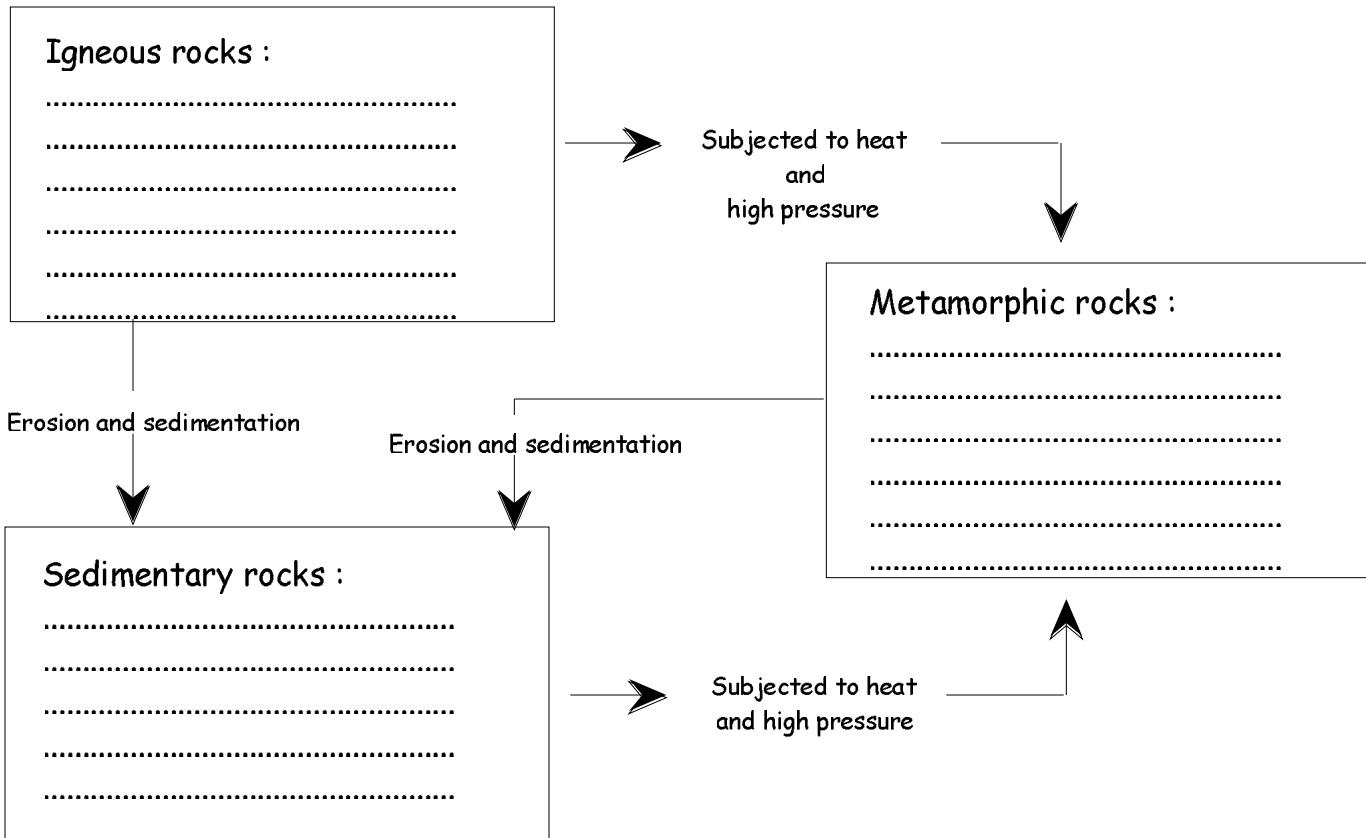
What is a mineral?

Complete the diagram below.

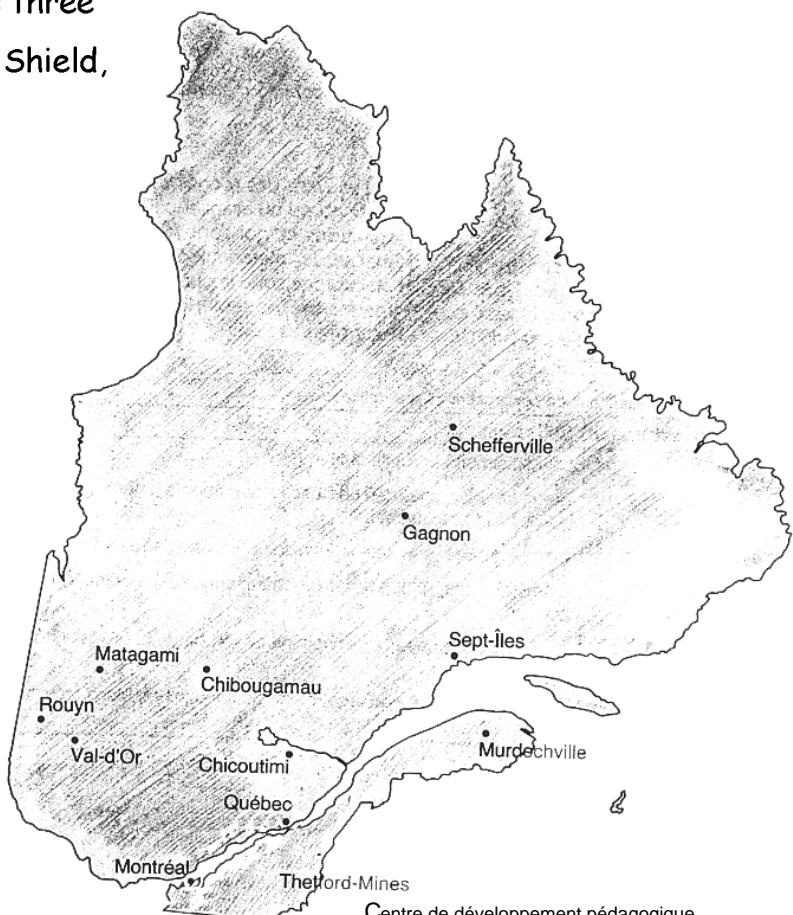
Rock cycle



Describe the characteristics of the three types of rocks.



Indicate on the map below Quebec's three physiographic regions: the Canadian Shield, the St. Lawrence Lowlands and the Appalachians.



Legend :

- Canadian Shield
- St. Lawrence Lowlands
- Appalachians

Summarize the characteristics of each region.

Canadian Shield :

.....
.....
.....
.....
.....

St. Lawrence Lowlands :

.....
.....
.....
.....
.....

Appalachians :

.....
.....
.....
.....
.....

What is the buffering capacity of soil?

.....
.....
.....
.....
.....

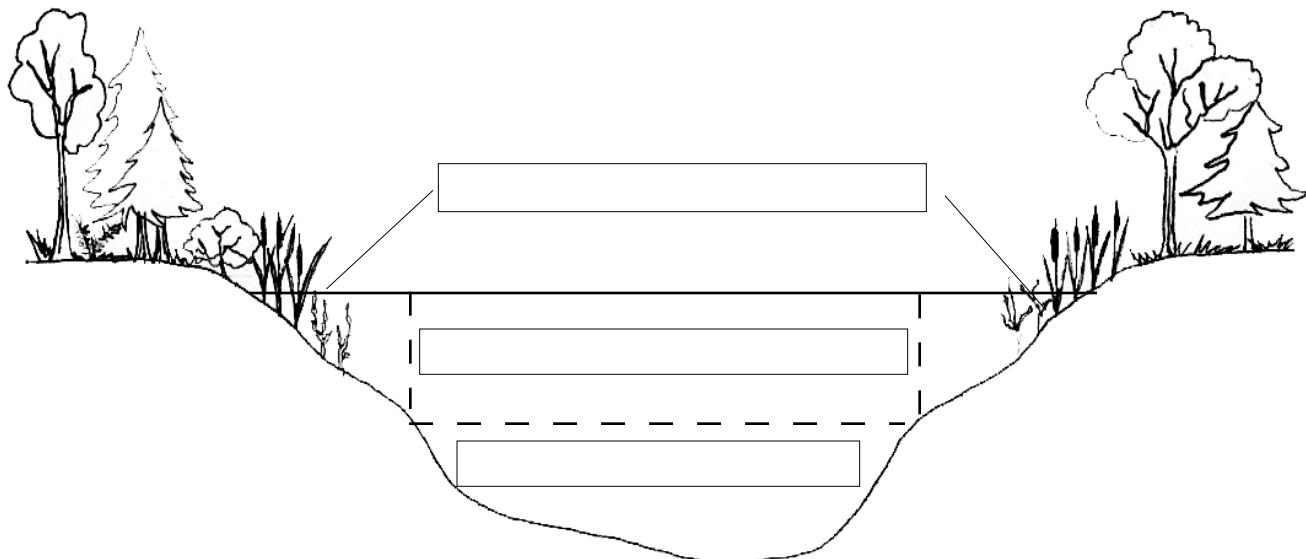
BIOLOGY WORKSHEET

Why is biodiversity important?

.....
.....
.....
.....



Zones of a lake



What are the characteristics of the following zones?

Littoral zone :

.....
.....

Limnetic zone :

.....
.....

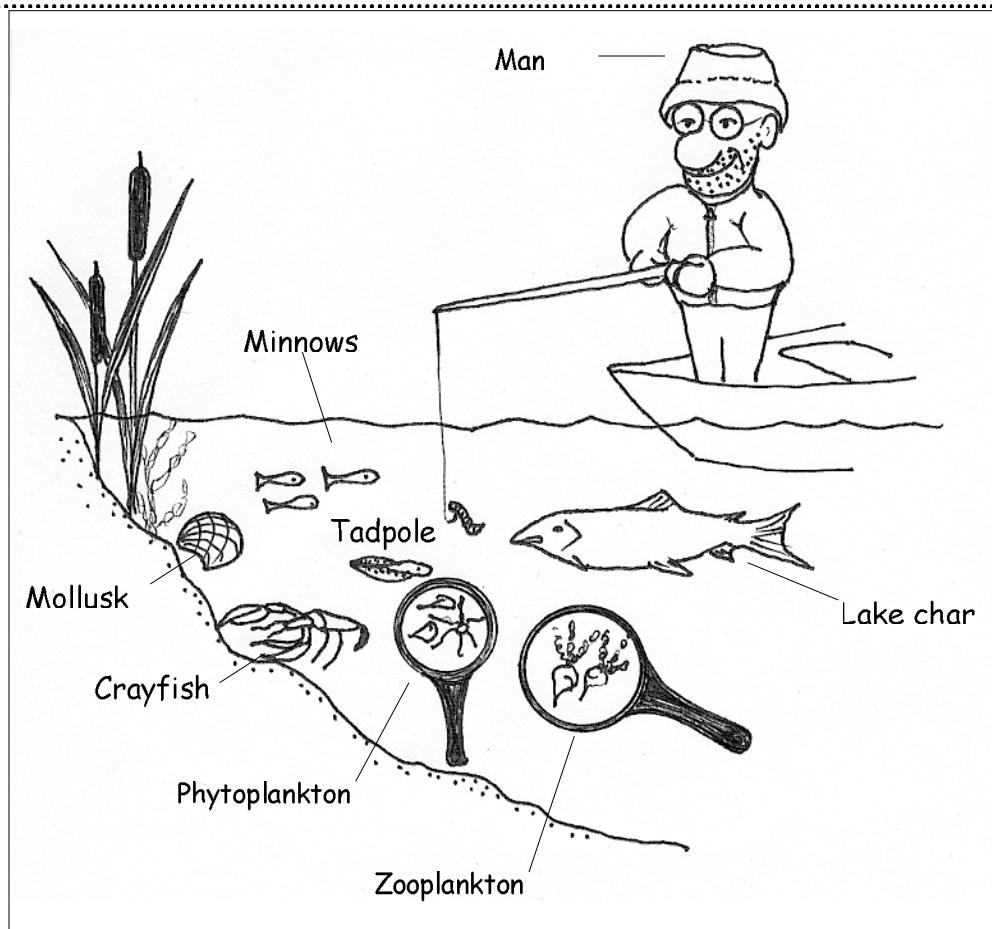
Profundal zone :

.....
.....
.....

Stable freshwater ecosystem

Describe how species evolve when the pH level goes from 6.8 to 5.0.

Explain briefly what is meant by assimilation and bioaccumulation in the food chain.



What regulates the pH of a lake?

How do plants absorb mineral salts?
