

Aim:

1. What is the significance of sulfur?

Sulfur (mainly in the form of sulfate ions: SO_4^{2-}) is absorbed by plants and used to build proteins

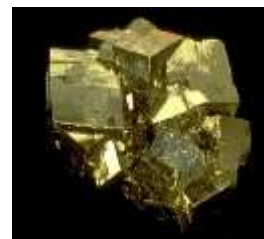
2. Where is most of the Earth's sulfur located?

mainly found in rocks and minerals

a.



b.



3. How is sulfur released into air and water?

a. **volcanoes**

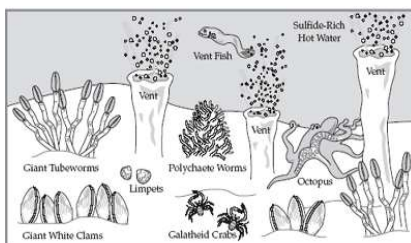
release H_2S – hydrogen sulfide gas
and SO_2 – sulfur dioxide gas



b. **hydrothermal vents**

in oceans

release H_2S – hydrogen sulfide gas
and metal sulfide particles



c. **anaerobic decomposers**

in swamps and bogs

(and sewers)

produce H_2S – hydrogen sulfide



4. How do humans influence the sulfur cycle?

a.

b.