

**CH3041      Tutorial 4      Terrestrial Chemistry**

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**Name:**

1. Discuss the chemistry in a raindrop using the **two-film model** for the transfer of gases into the drop.
2. Provide **chemical formulae** and **structural diagrams** for three common **aluminosilicate** minerals.

3. Discuss the mechanisms for **weathering** of primary minerals to form secondary minerals in soil.  
Why is quartz found in high percentage in the sedimentary rocks?

4. Illustrate the main features of the nitrogen cycle and explain the processes **denitrification** and **nitrogen fixation**.