

CH3041 Tutorial 8

Air Pollution

Name:

1. Explain the physical basis for the "**enhanced greenhouse effect**".
2. **General Circulation Models** are used in predicting global climate change. How does a GCM model work and what are the limitations of using this type of model to predict climate change?

3. Provide details of the basic chemistry occurring in a **photochemical smog**, include the key compounds and the physical conditions required for a smog to form?
What measurements are carried out to declare a photochemical smog event?
4. Acid rain has a pH of less than 4.9 and typically contains the mineral acids H_2SO_4 and HNO_3 .
How is the **buffer capacity of a soil** important in determining if forests growing in regions affected by acid rain will be affected by acid rainfall?