



Fig. 1: Temperature profile in the atmosphere (source: IUP Bremen)

Task 1:

- Explain, how temperature changes in the stratosphere. Note first, in which unit the temperature is given and transfer into the Celsius scale.
- Which are the consequences for the conditions given in the stratosphere?
- The atmosphere is often described as a stable piled atmospheric layer. Explain, why.

Task 2:

- Check on the ESPERE web-site [German link] in detail which condition there are in the stratosphere with respect to humidity.
- Explain, how water can enter the stratosphere.
- Within the stratosphere the ozone layer is formed, which is essential for our life. Collect briefly the most important information and put it together.

Task 3:

Develop a little Powerpoint presentation summarising the information and the insight in the matter you won.