

Review sheet – Home Heating

□ Home Heating Systems

- Most commonly used heating fuel
- Types of heating systems
 - Operating principle of the various types of heating systems
 - Advantages and Disadvantages of the various types of heating systems
- Heat pumps
 - Operating principle
 - Efficiency
 - COP calculation when inside and outside temperatures are given.
Remember to convert temperatures to K in these calculations
 - What happens when one temperature changes (either inside or outside) the COP?
 - Geothermal heat pumps
 - Operating principle
 - Classification – Difference between open loop and closed loop, vertical and horizontal loops
 - Benefits
- Passive and Active Solar Heating methods
- Ways to improve the energy efficiency of the heating systems