STAFF DEVELOPMENT ACTIVITY

ENERGY IN MY HOME

Learner activity: Collect energy data from your home, four times daily, over a two week period.

Staff Activity: How could this be achieved?

1. *What would the data be measured in?*
2. *Could this be converted into the energy unit measured in joule, if so, how?*
3. *What sort of data could be inferred from this information?*
4. *What maths opportunities are there here?*
5. *How could statistics and visual representations be utilised?*
6. *How could domestic energy be expressed as: per capita per year?*
7. *How could this be used to give an average power rating for the home over a given period or annually?*
8. *How would you express this as a mass of carbon output from conventional generation?*
9. *How could you obtain data from the output of a wind turbine?*
10. *How would you evaluate the output of a wind turbine from this data?*
11. *How might home improvements be modelled utilising the previous data?*
12. *How would you evaluate the performance of a solar water heater or photo-voltaic system from the answers to the above?*