




This energy audit of a community building should be completed by a group of young people and supported by an adult. It is important to recognise the process involved here of collecting data and information – this is a transferable skills for the future in other contexts. This audit could be used for example in homes.

Background information		
Name of Building:		
Audit completed by:		
Date:		
Estimate how many people use this building each week.		
What was the energy consumption last year?	a) Electricity bill: £.....kWh	b) Heating bill: (gas or oil) £.....kWh
	Best practice annual energy spend is £36 per pupil– how does your school compare? $(£a + £b) \div \text{number of pupils}$	
Where is the buildings' electricity meter?		
Where is the buildings' gas meter?		
When was the building built?		
How many buildings form the whole community building?		
Does the building have a flat roof?		

Using heat in the building

Does the building have double glazing?			
What year was the boiler installed?			
In the winter is the building:	Too hot	Too cold	Just right
Are there heating thermostats? (Where are they and how many?) <small>(A thermostat allows you to set the room temperature. When the room reaches that temperature the heating should go off- it should be between 19-21°C)</small>			
Have you ever seen windows open when the heating is on?	Yes	Sometimes	No
Have you ever seen doors open when the heating is on to cool the room down?	Yes	Sometimes	No
Do the radiators have these dials on? 	Yes, all do	Some do	None do
Do you think the building has been insulated? (Walls, windows, roof?)	Yes	Don't know	Possibly No
Are there any notices around the building to remind people to use energy and heat more effectively?	Yes	No	

Problem – can you solve it?

For each unit (kWh) of electricity used we emit 0.50kgs of carbon dioxide

For each unit (kWh) of heat used (from burning natural gas) we emit 0.18kgs of carbon dioxide

To work out how much Carbon Dioxide the building is emitting through electricity and heating use:

From your energy bill answer:

.....kWhs heat (from gas) x 0.18 kgs CO₂ =
.....Kgs CO₂

1 tonne = 1000kgs

