

Energy Theme: Standby Survey/

*Suitable for All
Students*



Aim: To discover how many appliances are left turned on or on standby when not in use.

Standby power is the energy used by some products when they are turned off but still plugged into a power source. Sometimes this is simply wasted power as a result of leaving an electronic device or power adapter plugged in. The devices causing this waste are referred to as energy vampires because these products are slowly sucking energy from your home while not providing any useful function!



Stand by hunt is a great way of discovering how much of the school's energy appliances are being left on or on standby when not in use and therefore increasing energy consumption. Making it a part of step 2 environmental review.

The results of the Energy Vampire Hunt will allow you to identify where you can save energy in the school by turning off appliances when not in use. Making it a part of step 3 your action plan.

This action also links with your Curriculum work step 5 – with the use of Maths, Art and IT to create graphs and diagrams that show the results of the audit.

Use the activity sheet attached to search the school for all the appliances present. Don't forget the rooms that students don't normally have access to like the staff room, but students you need to ask permission 1st.

Some of the newer appliances might have energy labels, or you can look them up online to get more information on each device you find. To take it a step further learn more about the electrical appliances ratings, with the SEAI www.seai.ie/blog/label-help-shopping

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Some note wordy facts about standby mode:

A device typically uses between 10% and 30% of the energy required in standby mode.



Some devices can use up to 50% of the energy required in standby mode like the newer games consoles. This is because of better graphics that need more power, faster game speed and internet connectivity. The more background actions a device uses the more power it will require in standby mode.

Switching off at the wall when not in use or even plugging out devices is an essential action to save power. For example a phone charger plugged in at the wall but not attached to a phone will still draw energy as much as 10%. You can feel this when you touch the charger it will be hot to touch, after a while. The worst offenders in the schools are projectors, laptops, interactive boards and photocopiers.

Why not add to your standby survey by creating a switch off campaign with posters reminding everyone at light switches and electric appliances.



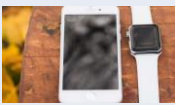
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Appliance	How many present	Left on or in Standby Y/N	Energy Label Rating
	WiFi Router		
	TV's		
	Fridges		
	Kettles		
	Photocopies		
	Lightbulbs		
	Other devices on standby		
	Printer		
	Clocks, battery or other		

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Appliance	How many present	Left on or in Standby Y/N	Energy Label Rating
	Air pods		
	Trackers or smart watches		
	Laptops		
	Pug in instruments		
	Phones		
	Radiators		
	Interactive Boards		
	Projectors		
	Games devices		

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Appliance	How many present	Left on or in Standby Y/N	Energy Label Rating
	Dish Washers		
	Microwaves		
	DVD Player		
	Radio player		
Add your own options below.....			