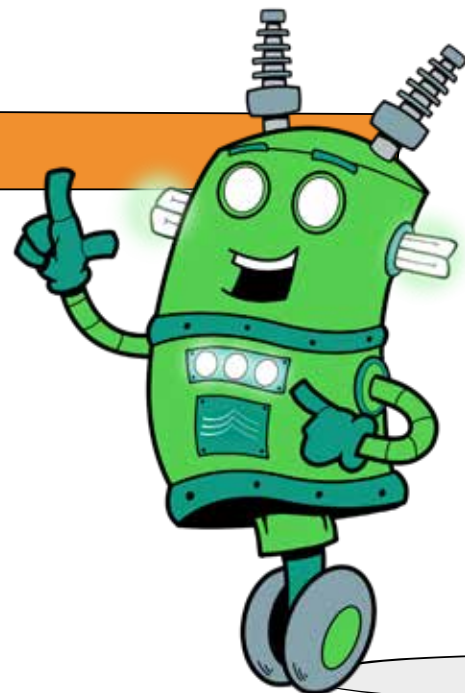


# ECOBOT'S ENERGY CHALLENGE

Year 5 Maths | Top Trumps Savings

## RESOURCE A

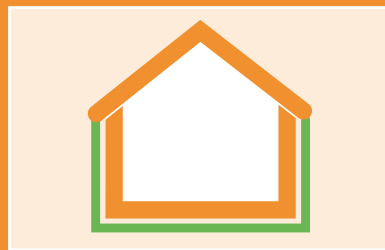


### Internal solid wall insulation



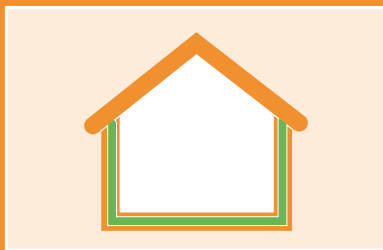
Annual bill savings	£174
Average disruption	⚡ ⚡ ⚡ ⚡ ⚡
Average cost	£7,931

### External solid wall insulation



Annual bill savings	£239
Average disruption	⚡ ⚡ ⚡ ⚡ ⚡
Average cost	£14,275

### Cavity wall insulation



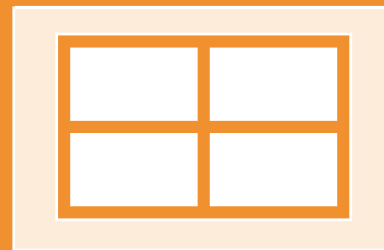
Annual bill savings	£158
Average disruption	⚡ ⚡ ⚡
Average cost	£429

### Full loft insulation



Annual bill savings	£177
Average disruption	⚡ ⚡ ⚡
Average cost	£286

### Double glazing



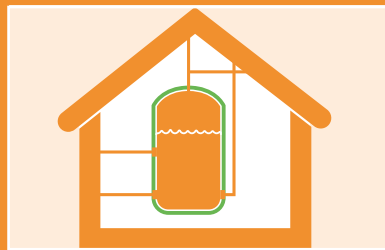
Annual bill savings	£67
Average disruption	⚡ ⚡ ⚡
Average cost	£6,040

### Draught-proofing



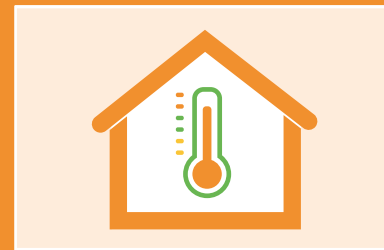
Annual bill savings	£16
Average disruption	⚡
Average cost	£120

### Hot water tank jacket



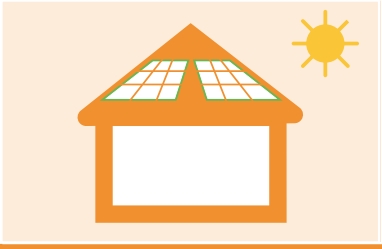

Annual bill savings	£72
Average disruption	⚡
Average cost	£70

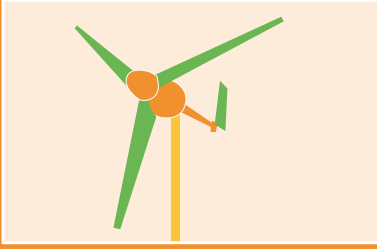

### Heating controls (TRVs)



Annual bill savings	£45
Average disruption	⚡
Average cost	£337

# ECOBOT'S ENERGY CHALLENGE

Solar PV 2kW	
	
Annual bill savings	£229
Average disruption	
Average cost	£4,800

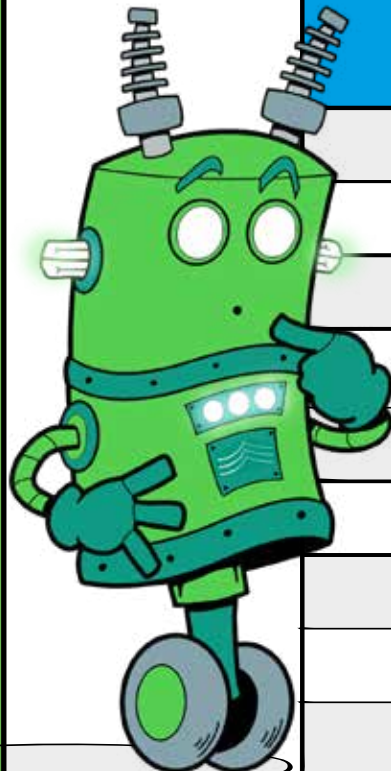
Microwind 1kW	
	
Annual bill savings	£166
Average disruption	
Average cost	£2,823

Source of costs:

Centre for sustainable energy:

[www.planlocal.org.uk/media/transfer/doc/planlocal\\_ee\\_6\\_new\\_top\\_energy\\_savers\\_game.pdf](http://www.planlocal.org.uk/media/transfer/doc/planlocal_ee_6_new_top_energy_savers_game.pdf)

## RESOURCE B

	Appliance	Cost	Annual Saving	House A	House B	House C
	Double glazing	£6,040	£67			✓
	Draught-proofing	£120	£16	✓	✓	✓
	Hot water tank jacket	£70	£72	✓		
	Heating controls	£337	£45	✓		✓
	Solar panels	£4,800	£229		✓	
	Microwind	£2,823	£166	✓		
	Internal insulation	£7,931	£174		✓	
	Cavity wall insulation	£429	£158	✓		
	Loft insulation	£286	£177		✓	✓