

ESA 21: Environmental Science Activities

Activity Sheet
Energy: Home Energy Audit

Name: _____

Professor: _____

Structure Data

Type of structure: _____ House _____ Apartment/Duplex _____ Mobile Home
Number of stories _____

Exterior Surface Types ([See R-Factor Sheet for a selection of types](#))

	First Type	Second Type (if needed)	Third Type (if needed)
Windows:	_____	_____	_____
Walls:	_____	_____	_____
Doors:	_____	_____	_____
Roof/Ceiling:	_____	_____	_____
Ground Floor:	_____	_____	_____

Ext. Surface Type	Area	R-Factor	Area	R-Factor	Area	R-Factor
Windows						
Doors						
Walls						
Roof/Ceiling						
Ground Floor						

Total area of heated and air conditioned space: _____ sq. ft.

Average height of ceilings: _____ ft.

Average indoor winter temperature (°F): _____

Average indoor summer temperature (°F): _____

Appliances

Heater Type: _____

Air Conditioning Type: _____

Refrigerators: _____ Freezers: _____

Refrigerator/Freezer Combo: _____

Electric Hot Water Heaters: _____

Gas Hot Water Heaters: _____

Electric Stove/Oven: _____ If yes: _____ Watts

Gas Stove/Oven: _____

Electric Clothes Dryer: _____ If yes: _____ Watts

Gas Clothes Dryer: _____

Energy Cost

Energy Source	Cost
Electricity	\$ _____ /kwh
Natural Gas	\$ _____ /therm
LP gas	\$ _____ /gal
Wood (cord = 128 ft ³)	\$ _____ /cord