

Name of the Student: _____

Max. Marks : 17 Marks

Time : 17 Minutes

Mark Schemes

Q1.

(a) iron 1

hairdryer 1

kettle 1

answers can be in any order

(b) (i) Y 1

(ii) bar drawn with any height greater than Y
ignore width of bar 1(c) (bigger volume) takes more time (to boil)
accept explanation using data from graph 1(so) more energy transferred
*do **not** accept electricity for energy* 1(and) this costs more money
ignore reference to cost of water
wasting more money because heating more water than needed is
insufficient 1**[8]****Q2.**

(a) (i) an unreliable energy source 1

(ii) a renewable energy source 1

(b) plant / grow (at least) one new tree 1

(c) greater than 4% 1

Q3.

(a) light

correct order only

1

electrical

1

(b) 0.2 or 1/5

accept 20% for both marks

allow 1 mark for correct substitution ie $\frac{35\,000}{175\,000}$
answers of 0.2% or 20 gain 1 mark only

2

(c) any **one** from:

- produces no (pollutant) gases
or
 no greenhouse gases
accept named gas
accept no air pollution
*do **not** accept no pollution*
accept less global warming
accept harmful for pollutant
accept produces no carbon
*do **not** accept environmentally friendly*
- produces no / less noise
- less demand for fuels
accept any other sensible environmental advantage

1