1

1

[9]

Mark schemes

Q1.

(a) increases

(b)

(mass =) $\frac{7000}{3000}$

= 2.33 (kg)

allow 2.333333 correctly rounded to at least 2 significant

(c) rain

(d) five points plotted correctly

allow a tolerance of ± ½ a small square

allow three or four points plotted correctly for 1 mark

figures

line of best fit

2

(e) increases

1

(f) dimming

Q2. (a)	coal is a solid ignore references to cost	1
	(so solid) coal cannot flow through pipelines allow (so) coal has to be made into a slurry to flow through pipelines	1
(b)	(fuel) coal	1
	(reason) (coal contains the) highest percentage of sulfur MP2 is dependent upon MP1 being awarded	1
(c)	 any one from: acid rain allow specified effects of acid rain respiratory problems (in humans) allow specified respiratory problems 	1
(d)	(fuel) (natural) gas	1
	(reason) (natural gas produces) fewer / fewest solid particles MP2 is dependent upon MP1 being awarded	1
(e)	 any one from: global dimming health problems for humans 	1
(f)	combustion	1
(g)	 any three from: more oil is used than gas use of oil has decreased overall use of oil increased in some years there was a large drop in use of oil between 2019 and 2020 	
	 use of natural gas decreased overall use of natural gas increased in some years use of natural gas remained fairly constant from 2014 to 2020 	

[12]