



Reform

Specimen ESA Mark Scheme

Component 5 - Physics: Energy, forces and the structure of matter

Question	Answers	Additional Guidance	Mark
1	Type of energy kinetic (movement) Fan thermal MF3 player electrical Storage buttery	one mark for each correct line. more than one line from a device negates that mark.	3
2	 any one from: make the walls thicker cavity insulation rendering wallpaper painting the walls white. 		1
3	Washing machine G would waste more energy.		1
4	geothermal		1
5	turbine generator renewable		1 1 1
6 (a) (b)	force work		1
7	50		1

8	Braking distance		1
9	The brakes are old and worn. The driver has been drinking alcohol. There is ice on the road.		1 1 1
10	Alpha source – Cardboard Beta source – Aluminium Gamma source – Lead	all three correct One only correct = 1 mark	2
11	Food and drink – 3 slices Ground and building -3 slices Other – 1 slice	all three correct One only correct = 1 mark	2
Total			20