

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

Question	Answers	Additional Guidance	Mark
1		<p>one mark for each correct line.</p> <p>more than one line from a device negates that mark.</p>	3
2	<p>any one from:</p> <ul style="list-style-type: none"> • make the walls thicker • cavity insulation • rendering • wallpaper • painting the walls white. 		1
3	<p>Washing machine G would waste more energy.</p>		1
4	<p>geothermal</p>		1
5	<p>turbine</p> <p>generator</p> <p>renewable</p>		1 1 1
6 (a)	<p>force</p>		1
(b)	<p>work</p>		1
7	<p>50</p>		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