iii	Substitution and rearrangement; Calculation; 12 0.05x 1.6 150 (m)	POT error loses 1 mark e.g. 0.15 (m) gets 1 mark	2
е	<ul> <li>any Two from:</li> <li>Value of g lower(on the Moon)/RA;</li> <li>lack of air resistance (on the Moon)/RA;</li> <li>Time of flight greater;</li> </ul>	<ul> <li>ignore</li> <li>'no gravity'</li> <li>allow</li> <li>less gravity</li> <li>drag for air resistance</li> </ul>	2

(Total for Question 10 = 15 marks)

_	estion mber	Answer	Notes	Marks
12	a	<ul> <li>MP1. series circuit containing lamp and some form of power supply;</li> <li>MP2. ammeter in series with lamp;</li> <li>MP3. voltmeter in parallel across lamp;</li> <li>MP4. variable resistor in series OR use of variable power supply;</li> </ul>	incorrect symbols or substantial gaps =- 1 ONCE allow either symbol for lamp ignore other components e.g. switch	4
	b i	idea that gradient changes; e.g. voltage increases more rapidly than the current	look for a rate change expressed in student terms Accept Ine is curved not a straight line V is not proportional to I	1
	ii	MP1. Lamp heats up; MP2. Greater chance of electron collisions; MP3. (hence) resistance increases;	do not award marks for a description of the shape of the graph	3

(Total for question 12 = 8 marks)