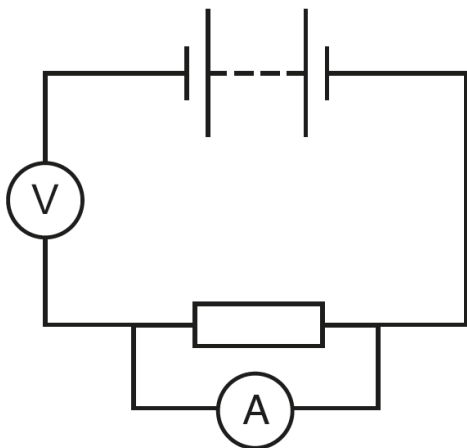


Physics 1 a Week Activity		Foundation	3 rd Week
Name: Class:			
A student sets up a circuit to find out the resistance of an unknown resistor. The student makes three mistakes in their circuit. Look at the circuit diagram of their experiment.			
		i. Write down the three mistakes the student makes. 	
ii. The student finds that the current is 20 mA when the potential difference is 4.0 V. Calculate the resistance of the unknown resistor. Include the unit for resistance in your answer. Resistance = ... Unit:			
A runner has a mass of 80 kg and moves at a speed of 5 m/s. Calculate the kinetic energy of the runner. Kinetic energy = ...		The acceleration of a car is 5 m/s². The mass of the car is 1310 kg. Calculate the resultant force on the car. Force = ...	
A radioactive isotope has a half-life of 6 hours. 50 g of the isotope are put in a container. What mass of the isotope is left after 6 hours? Mass = ...			
A person is driving along when a deer suddenly runs into the road in the way of the car. State three factors that will affect the braking distance of the car. 			