



Brush Monsters Worksheet

Names.....

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Science: Electricity	
Name the electrical parts (components) used in your circuit.	
Draw your circuit using these circuit symbols, and using lines to represent the wires. Label the components. 	
What will happen if you leave the circuit switched on for a long time?	
Why do you need to attach the crocodile clips onto bare metal, not onto plastic insulation?	
What could happen if you short circuit your battery? (A short circuit allows the electricity to flow round with very little resistance. For example if you accidentally connect your battery wires together instead of connecting via the motor.)	

Science: Forces	
Why do you need an offset hole in your wooden wheel, instead of a central one?	
Design and Technology	
What joining methods did you use to create your brush monster?	
Engineering	
What would happen if the wooden wheel is pushed up against the end of the brush? How could you fix this?	
Maths	
What was the average speed of your brush monster? (Average speed = total distance / time)	
Extension questions	
Does the brush monster work on carpet? Explain your findings.	
If you wanted to make a faster brush monster, what would you change?	