

KS1 D and T Quiz - Electricity (Questions)

This quiz addresses part of the requirements of the National Curriculum KS1 Design and Technology for children aged 5 and 6 in years 1 and 2. Specifically it looks at where electricity comes from, its uses, circuits and conductors. It is one of 10 quizzes to help you with designing and making useful things, and finding out about how things are made.

We need electricity to help us live. Most of our machines contain circuits and need at least some electricity. Computers, phones, televisions, cars, trains, aeroplanes - they all use electricity. Machines that use very small amounts of electricity are called electronic machines. But the whole country uses massive amounts of electricity. Most of this electricity is produced in power stations. It is carried round the country in metal wires, or conductors. These are fixed to great big, tall pylons.

<p>1. Small amounts of electricity can be stored in _____.</p> <p><input type="checkbox"/> Motors</p> <p><input type="checkbox"/> Bulbs</p> <p><input type="checkbox"/> Batteries</p> <p><input type="checkbox"/> Cupboards</p>	<p>2. Some materials let electricity go through them. What do we call materials that will let electricity go through them?</p> <p><input type="checkbox"/> Transfers</p> <p><input type="checkbox"/> Conductors</p> <p><input type="checkbox"/> Insulators</p> <p><input type="checkbox"/> Carriers</p>
<p>3. Which one of these needs electricity to make it work?</p> <p><input type="checkbox"/> A television</p> <p><input type="checkbox"/> A pencil</p> <p><input type="checkbox"/> A spade</p> <p><input type="checkbox"/> A balloon</p>	<p>4. Electricity is carried round the country in wires. These hang from very tall _____.</p> <p><input type="checkbox"/> Towers</p> <p><input type="checkbox"/> Pylons</p> <p><input type="checkbox"/> Trees</p> <p><input type="checkbox"/> Spires</p>
<p>5. Which one of these uses electricity to make it work?</p> <p><input type="checkbox"/> A garden hose</p> <p><input type="checkbox"/> A watering can</p> <p><input type="checkbox"/> A clockwork toy</p> <p><input type="checkbox"/> A computer</p>	<p>6. Ellie takes the bulb out of her circuit and replaces it with a buzzer. When Ellie switches on the circuit, what does the buzzer produce?</p> <p><input type="checkbox"/> Light</p> <p><input type="checkbox"/> Sound</p> <p><input type="checkbox"/> Electricity</p> <p><input type="checkbox"/> Air</p>
<p>7. What do we use to turn electricity on and off?</p> <p><input type="checkbox"/> A handle</p> <p><input type="checkbox"/> A switch</p> <p><input type="checkbox"/> A tap</p> <p><input type="checkbox"/> A lever</p>	<p>8. Ellie is building a simple circuit. It has wires, a switch, a battery, and a bulb. When Ellie turns it on, what does the bulb produce?</p> <p><input type="checkbox"/> Sound</p> <p><input type="checkbox"/> Electricity</p> <p><input type="checkbox"/> Light</p> <p><input type="checkbox"/> Air</p>
<p>9. Freddie has built a toy car. He wants to make the car move on its own. He adds a battery, wires, a switch and a _____.</p> <p><input type="checkbox"/> Bulb</p> <p><input type="checkbox"/> Motor</p> <p><input type="checkbox"/> Seat</p> <p><input type="checkbox"/> Radio</p>	<p>10. Which one of these is a conductor of electricity?</p> <p><input type="checkbox"/> Wood</p> <p><input type="checkbox"/> Rubber</p> <p><input type="checkbox"/> Metal</p> <p><input type="checkbox"/> Plastic</p>

KS1 D and T Quiz - Electricity (Answers)

<p>1. Small amounts of electricity can be stored in _____.</p> <p><input type="checkbox"/> Motors <input type="checkbox"/> Bulbs <input checked="" type="checkbox"/> Batteries <input type="checkbox"/> Cupboards</p> <p>Lots of things use batteries, from mobile phones to electric toys</p>	<p>2. Some materials let electricity go through them. What do we call materials that will let electricity go through them?</p> <p><input type="checkbox"/> Transfers <input checked="" type="checkbox"/> Conductors <input type="checkbox"/> Insulators <input type="checkbox"/> Carriers</p> <p>Insulators are materials that will NOT let electricity go through them</p>
<p>3. Which one of these needs electricity to make it work?</p> <p><input checked="" type="checkbox"/> A television <input type="checkbox"/> A pencil <input type="checkbox"/> A spade <input type="checkbox"/> A balloon</p> <p>Electricity is needed to make the pictures and the sound</p>	<p>4. Electricity is carried round the country in wires. These hang from very tall _____.</p> <p><input type="checkbox"/> Towers <input checked="" type="checkbox"/> Pylons <input type="checkbox"/> Trees <input type="checkbox"/> Spires</p> <p>Never go near electricity pylons - the electricity in the wires is very dangerous</p>
<p>5. Which one of these uses electricity to make it work?</p> <p><input type="checkbox"/> A garden hose <input type="checkbox"/> A watering can <input type="checkbox"/> A clockwork toy <input checked="" type="checkbox"/> A computer</p> <p>All computers need a little bit of electricity to make them work</p>	<p>6. Ellie takes the bulb out of her circuit and replaces it with a buzzer. When Ellie switches on the circuit, what does the buzzer produce?</p> <p><input type="checkbox"/> Light <input checked="" type="checkbox"/> Sound <input type="checkbox"/> Electricity <input type="checkbox"/> Air</p> <p>The buzzer uses electricity and turns it into sound energy</p>
<p>7. What do we use to turn electricity on and off?</p> <p><input type="checkbox"/> A handle <input checked="" type="checkbox"/> A switch <input type="checkbox"/> A tap <input type="checkbox"/> A lever</p> <p>Most switches are 'on' when they are down</p>	<p>8. Ellie is building a simple circuit. It has wires, a switch, a battery, and a bulb. When Ellie turns it on, what does the bulb produce?</p> <p><input type="checkbox"/> Sound <input type="checkbox"/> Electricity <input checked="" type="checkbox"/> Light <input type="checkbox"/> Air</p> <p>The bulb uses electricity and turns it into light energy</p>
<p>9. Freddie has built a toy car. He wants to make the car move on its own. He adds a battery, wires, a switch and a _____.</p> <p><input type="checkbox"/> Bulb <input checked="" type="checkbox"/> Motor <input type="checkbox"/> Seat <input type="checkbox"/> Radio</p> <p>Lots of machines use an electric motor to make them work</p>	<p>10. Which one of these is a conductor of electricity?</p> <p><input type="checkbox"/> Wood <input type="checkbox"/> Rubber <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic</p> <p>Have you ever built a circuit? A metal paper-clip or a coin will let the electricity go round the circuit</p>