

MAKE YOUR CLOCK TICK WITH POTATO POWER!

ADVICE FOR SUPERVISING ADULTS:

1. Read and follow these instructions and keep them for reference.
2. Because children's abilities vary so much, even within age groups, supervising adults should exercise discretion as to which experiments are suitable and safe for them.
3. The supervising adult should discuss the warnings and safety information with the child or children before commencing the experiments.
4. Children will require help and supervision when cutting potato.
5. Never connect any of the parts provided to any AC wall socket or any batteries. This may cause electric shock or a short circuit.

CONTENTS:

1 Digital clock with two connecting wires – red and black, 1 Yellow wire, 2 Zinc strip plugs (silver), 2 Copper strip plugs (gold)

ASSEMBLING AND POWERING THE POTATO CLOCK:

1. Connect the red wire from the digital clock to a copper strip plug (gold) and the black wire to a zinc strip plug (silver). Do this by looping the metal wire through the holes in the strips at least twice, and pulling tight to ensure good metal-to-metal contact.
2. Connect the yellow wire to the remaining copper strip plug (gold) and zinc strip plug (silver) in the same way.
3. Select 2 clean medium-sized potatoes or cut a large potato into 2 halves. You may need to ask an adult for assistance with cutting the potato. Insert the zinc strip plug (silver) connected to the digital clock's black wire into one potato/piece, and the copper strip plug (gold) connected to the digital clock's red wire into the other potato/piece. Insert the remaining zinc strip plug (silver) attached to the yellow wire into the potato which has the copper strip from the clock inserted, then insert the copper strip plug (gold) attached to the yellow wire into the potato which has the zinc strip from the clock inserted. Your very own potato clock is powered up! Time to set it up with the instructions in the pack!

HOW IT WORKS

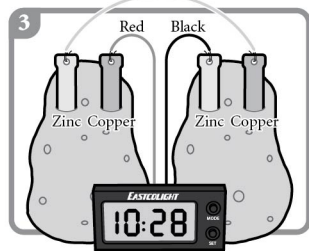
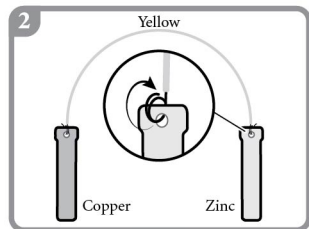
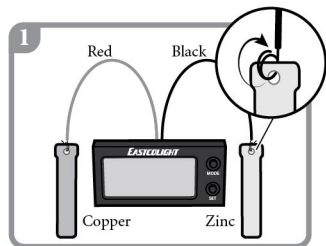
The idea that a vegetable can produce electricity may be a new and surprising idea, but most of us know that vegetables contain chemicals, and some chemicals have electrical properties. A potato battery is an electrochemical battery or cell, in which chemical energy is converted to electric energy by what is called spontaneous electron transfer.

In the 'conductive' chemistry of our experimental potatoes, the zinc in one strip plug reacts with the copper in the other because of the different properties of the metals, and this generates energy. However, because the potato is less conductive than the copper wires the plugs are connected to, the energy released by electron transfer has to escape through the copper wires of the circuit and into the clock. Hey presto! We have potato power.

AHA!

1. The largest potato weighed in the world was a huge 8 pounds and 4 ounces!
2. Although a potato has enough energy to run a small digital clock, it is not powerful enough to shock you.
3. Raw potatoes contain strong acid. Acid is conductive for electricity, such as in car batteries.
4. Just one potato can power a room full of LED lights for over a month.

NOTE: Under the environment with electrostatic discharge, the device may malfunction and require user to reset the device.



EN WARNING! ONLY FOR USE BY CHILDREN OVER 8 YEARS OLD. TO BE USED SOLELY UNDER THE STRICT SUPERVISION OF ADULTS THAT HAVE STUDIED THE PRECAUTIONS GIVEN IN THE EXPERIMENTAL SET. NOT SUITABLE FOR CHILDREN UNDER 36 MONTHS DUE TO SMALL PARTS, CHOKING HAZARDS. THIS TOY CONTAINS FUNCTIONAL SHARP POINT - ON THE COMPONENT LEADS, MADE IN CHINA.

FR ATTENTION ! A UTILISER UNIQUEMENT PAR DES ENFANTS DE 8 ANS ET PLUS. A UTILISER EXCLUSIVEMENT SOUS LA STRICTE SURVEILLANCE D'UN ADULTE INFORMÉ DES PRÉCAUTIONS À PRENDRE AVEC L'ENSEMBLE D'ÉPURATION. NE CONVIENT PAS AUX ENFANTS DE MOINS DE 36 MOIS CAR IL CONTIENT DES PETITES PIÈCES ET POURRAIT CAUSER UN DANGER D'ÉTOUFFEMENT. CE JOUET COMPREND DES PARTIES POINTUES TELLES QUE LES BROCHES DE FIXATION DES COMPOSANTS, FABRIQUÉ EN CHINE.

ES ADVERTENCIA! SOLO PARA NIÑOS DE 8 AÑOS DE EDAD EN ADELANTE. UTILIZAR ÚNICAMENTE BAJO LA ESTRUCTURA SUPERVISIÓN DE ADULTOS QUE HAYAN ESTUDIADO LAS MEDIDAS DE PRECAUCIÓN QUE ACOMPAÑAN AL EQUIPO EXPERIMENTAL. NO ADECUADO PARA NIÑOS MENORES DE 3 AÑOS DEBIDO A LAS PIEZAS PEQUEÑAS. PELIGRO DE ATRAGANTAMIENTO. ESTE JUGUETE CONTIENE PUNTAS AFLADAS FUNCIONALES - EN LOS EXTREMOS DE LOS COMPONENTES, FABRICADO EN CHINA.

IT AVVERTENZA! SOLO PER BAMBINI DI ETÀ SUPERIORE A 8 ANNI. DA UTILIZZARE SOLTANTO SOTTO LA STRETTA SUPERVISIONE DI ADULTI CHE ABBIANO STUDIATO PER PRECAUZIONI INDICATE NEL SET PER ESPERIMENTI. CAUSA LA PRESENZA DI ELEMENTI PICCOLI, IL PRODOTTO NON È ADATTO PER BAMBINI SOTTO I 3 ANNI. PERICOLO DI SOFFOCAMENTO. QUESTO GIOCATTOLO CONTIENE PARTI FUNZIONALI APPUNTITE - SUI CAVI DEI COMPONENTI, FABBRICATO IN CHINA.

DE ACHTUNG! DAS PRODUKT IST NUR FÜR KINDER ÄLTER ALS 8 JAHREN GEEGNET. ES DARF NUR UNTER DER AUFSICHT VON ERWACHSENEN BENUTZT WERDEN, DIE SICH DIE SICHERHEITSHINWEISE, DIE MIT DIESEM EXPERIMENTIERKASTEN GELIEFERT WERDEN, SORGFÄLTIG DURCHGELESEN HABEN. WEGEN KLEINER TEILE NICHT GEEIGNET FÜR KINDER UNTER 36 MONATE - ERSTICKUNGSGEFÄHR. DAS SPIELZEUG ENTHÄLT FUNKTIONELLE SCHARFE SPITZEN - AN EINIGEN ZUBEHÖRTEILEN. HERGESTELLT IN CHINA.

NL WAARSCHUWING! ALLEEN TE GEBRUIKEN DOOR KINDEREN VAN 8 JAAR EN OUDER. DIET ALLEEN GEBRUIKT TE WORDEN ONDER TOEZICHT VAN EEN VOLWASSEN DIE DE VOORZORGSMAATREGELEN IN DE EXPERIMENTEERSET BESTUDEERD HEFFT. NIET GESCHIKT VOOR KINDEREN JONGER DAN 3 JAAR VANWEGE KLEINE ONDERDELEN. STIKGEVAAR. DIT SPEELGOED BEVAT FUNCTIONELE SHERPE PUNTEN (OP DE UITENDEN VAN DE ONDERDELEN). GEMAAKT IN CHINA.

PT AVISO! APENAS PARA SER UTILIZADO POR CRIANÇAS COM MAIS DE 8 ANOS DE IDADE. A SER USADO APENAS SOB A SUPERVÍSÃO CONSTANTE POR PARTE DE UM ADULTO QUE TENHA ESTUDADO AS PRECAUÇÕES APRESENTADAS NO CONJUNTO EXPERIMENTAL. ESTE PRODUTO NÃO É ADEQUADO PARA MENORES DE 36 MESES DEVIDO À EXISTÊNCIA DE PEQUENAS PARTES. PERIGO DE ASFIXIA. ESTE BRINQUEDO CONTEM PONTAS FUNCIONAIS AFIADAS NOS FIOS DOS COMPONENTES. FABRICADO NA CHINA.



DO NOT THROW PACKAGING AWAY. ALWAYS KEEP PACKAGING FOR FUTURE REFERENCE AND SAFETY REASONS. COLORS AND CONTENTS MAY VARY.

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Switching off the alarm

To switch off the signal when the alarm sounds, press the SET button. You can also choose to switch off the alarm signal temporarily with the MODE button. If you use this so-called 'snooze' function, the alarm will sound every 5 minutes until you switch it off completely by pressing the SET button.

Activating/deactivating alarm and hourly signals:

1. Press the SET button once, then press the MODE button to activate or deactivate the alarm and hourly signal functions: ALARM ON (☞), CHIME ON (🔔), ALARM OFF and CHIME OFF.
2. Press three more times on the SET button to return to the current time.

IF IT DOESN'T WORK

If your potato clock is not working, please check:

1. If the connections are correct.
2. If the wires are wrapped securely around the metal strips.
3. If the metal strips are inserted into the potatoes deeply enough for strong contact.
4. If the metal strips or wires are touching each other, which may cause a 'short circuit'.
5. If any of the metal strips are rusted. If so, use fine sandpaper (not included) to remove the rust.

HOW TO SET YOUR POTATO CLOCK

DATE & TIME

1. Press the SET button 4 times to display MONTH, then use the MODE button to set the current month.
2. Press the SET button once more to display DAY, then use the MODE button to set the current day.
3. Press the SET button one more time to display HOURS, then use the MODE button to set the current hour. Note that A/P or H appears at the right of the display: A = AM, P = PM, H = 24-hour clock. Select the desired format by pressing the MODE button repeatedly.
4. Press the SET button again to display MINUTES. Then use the MODE button to set the current minute value.
5. To save the settings you have entered, press SET and then MODE.

ALARM & HOURLY SIGNAL

Setting the alarm:

1. Press the SET button once and then press the MODE button to activate the alarm function. Press SET one more time then use the MODE button to set the alarm hour.
2. Press SET again then use the MODE button to set the alarm minute.
3. Press SET again to save these settings.