

CLASS ACTIVITY: Super Fruity Loops!

YOU'VE SEEN FRUIT POWER IN ACTION...NOW SHOW ME SOME BRAIN POWER! LET'S GO LOOPY AND MAKE SOME ELECTRICITY!

LIGHT UP YOUR LIFE

Make your bulb shine the brightest by designing a circuit using any of the equipment shown here.



First, choose which equipment you want in your circuit. Draw a diagram of your circuit in the 'Circuit 1' box. When you are sure your circuit would work, colour in the light bulb. Make it shine! Then, design a different circuit and draw it in the 'Circuit 2' box.

CHALLENGE CHAMPIONS!

Do you know all the correct symbols for a battery, light bulb, switch and wires? Then let's see them! Make sure your diagrams use the right symbols.

CIRCUIT 1

CIRCUIT 2



POWER PONDER!

What happens when you add more batteries to your circuit? Write your answer below:



POWER PONDER!

You've found out which of the things on this sheet are great conductors of electricity. Can you think of any other materials that are good conductors? Draw and label them in the box:



Remember! Electricity is dangerous. Never play with batteries or plugs.

HOME ACTIVITY: Fruit Loops!

CONGRATULATIONS! YOU KNOW ALL ABOUT AT CREATING CIRCUITS. NOW LET'S GET EVEN MORE CONNECTED AND INVESTIGATE WHAT GENERATES THE BEST FRUITY POWER.

Warning! Do this experiment with a grown-up.

YOU WILL NEED

- Four types of fruit
- A small light bulb (your teacher will lend you one)
- Copper coins (such as 2p piece)
- Two pieces of copper wire (your teacher will lend you this or tell you where to buy it)
- A steel nail
- A small binder clip or a bulldog clip.

GET EXPERIMENTING!

1. Choose your piece of fruit.
2. Push the coin into the fruit.
3. Fix the copper wire to the coin using the clip.
4. Push the nail into the other side of the fruit, leaving some of the nail sticking out.
5. Wind the end of the other copper wire round the nail.
6. Fix both wires to the bulb to make a circuit. Does the bulb light up?
7. Write down what you see under 'Observations'.
8. Now try this again with all the other fruit. Which fruit worked best?

TYPE OF FRUIT

1.

2.

3.

4.

OBSERVATIONS

1.	<hr/> <hr/> <hr/>
2.	<hr/> <hr/> <hr/>
3.	<hr/> <hr/> <hr/>
4.	<hr/> <hr/> <hr/>

And the Prize for Best Fruit Battery goes to:



POWER PONDER!

What happens to the bulb when the fruit is dry and not juicy?

Baxi - helping the next generation learn about renewable energy.
To find out more go to: www.baxi.co.uk/renewables

