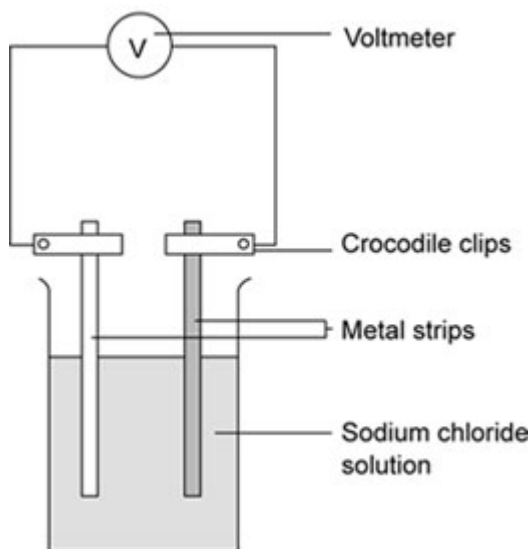


# Student worksheet: Electricity from chemicals

## Introduction

Reactive metals form ions more readily than less reactive metals. This experiment illustrates the tendency of various metals to form ions. Two different metals and an electrolyte form a cell. The more reactive metal becomes the negative pole from which electrons flow.



## What to record

Complete the table.

## What to do

1. Set up the apparatus as shown.
2. Record the voltage.
3. Try all the combinations of metals.
4. Wash hands after handling lead.

## Safety

Metals used	Which metal forms the positive terminal (+ve)	Which metal forms the negative terminal (-ve)	Voltage (V)
Zinc and copper			
Copper and lead			
Lead and iron			



Zinc and lead			
Iron and magnesium			
Zinc and iron			
Zinc and magnesium			
Lead and magnesium			
Copper and magnesium			
Copper and iron			

## Questions

1. Place zinc, magnesium, copper, lead, and iron in order of reactivity.

## Credits

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*Health & safety checked January 2018*

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