[](http://www.google.co.uk/url?sa=i&rct=j&q=science&source=images&cd=&cad=rja&docid=TvshIhfCpcfc3M&tbnid=a5_CrbXxqGi1qM:&ved=0CAUQjRw&url=http://whitchurchprimary.org.uk/class-pages/learning-links/science-2/&ei=YRmWUsljhJOFB6engKgI&psig=AFQjCNF_Rfs7D47ruacH8MTtzbTB9VWgsg&ust=1385654991985403)

  
 HOMEWORK BOOKLET  
 Chemistry

Metal reactions

[](http://www.google.co.uk/url?sa=i&rct=j&q=science&source=images&cd=&cad=rja&docid=v5AR5gGjskgcnM&tbnid=0VIVH7XTjzL_rM:&ved=&url=http://adamvyzl.tblog.com/&ei=TxmWUtzALYKShgedx4Fw&psig=AFQjCNF_Rfs7D47ruacH8MTtzbTB9VWgsg&ust=1385654991985403)

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date Given: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date to Hand in:\_\_\_\_\_\_\_\_\_\_\_



Parent / Guardian Comment:

**WWW**:

**NS/Target for next piece of work**:

**Guidelines**

Within this booklet there are a series of tasks.

Parents/Guardians are encouraged to support their children in the completion of this booklet. Each task should last for approximately 30 minutes.

Marks will be awarded for:

* High quality presentation of work
* Correct spelling, punctuation and grammar
* Use of key terms

**Extra Help**

Consider doing the following to help you find information to complete the tasks.

* Useful Website: http://www.bbc.co.uk/bitesize/science
* Use a search engine e.g. google.com or bing.com
* Use key words in your google searches e.g. ‘punnet squares’. Even better if you add ‘bitesize punnet squares’ which normally finds the exact page on bitesize which Is easily understandable with examples.
* Use ask.com to find a fact out.
* Avoid Wikipedia.

**Homework tasks**

The following section is levelled from task 1 to task 5. These tasks will get progressively more difficult but try them all and stretch your knowledge ☺

Dispatches will be awarded for each section completed correctly and for excellent presentation. You may need to research the answers using books or the internet.

The Reactivity Series

The reactivity series shows metals in order from most reactive to least reactive. Complete the reactivity series in the space below.

Most Reactive

Least Reactive

Potassium

Gold

1. Put the following elements in order of reactivity from **most reactive to least.**

1. Copper, Magnesium, Potassium, Gold, Zinc

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Lead, Sodium, Silver, Potassium, Iron

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2. Why do we use silver and gold for jewellery?

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3. Why do we not use magnesium for water pipes?

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**Reactions of Metals and Acid**

Reactions between most **acids and metals** follow a very similar pattern, making **a ‘salt’** and **hydrogen** gas. We can show this pattern using a word equation for the reaction to represent the **reactants** (the acid and the metal) making the **products** (the ‘salt’ and hydrogen):

a ‘salt’ + hydrogen

acid + metal

(products)

(reactants)

An example of a reaction between an acid and metal would be **hydrochloric acid** and **magnesium**:

magnesium chloride + hydrogen

hydrochloric acid + magnesium

The name of the salt produced comes from the taking the name of the metal in the reaction (in this example ‘magnesium’), and the second part of the name of the acid (here, ‘chloric’), but tweaking it slightly to give the right ending:

|  |  |
| --- | --- |
| **Acid** | **Salt** |
| Hydrochloric | Chloride |
| Nitric | Nitrate |
| Sulphuric | Sulphate |

Use the table above to try and complete these word equations for reactions between acids and metals.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + hydrogen

Hydrochloric acid + sodium

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + hydrogen

Sulphuric acid + magnesium

Lithium sulphate + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + lithium

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Nitric acid + zinc

Hint – Search ‘test for hydrogen’ in google.

Describe how you could test for hydrogen gas.

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**Reactions of Metal Carbonates and Acids**

Reactions between most **acids and metal carbonates** also follow a pattern: **a ‘salt’** is produced together with **water** and **carbon dioxide** gas. Again, we can show this pattern using a word equation for the reaction to represent the **reactants** making the **products**:

a ‘salt’ + water + carbon dioxide

acid + metal carbonate

(products)

(reactants)

An example of a reaction between an acid and metal would be **hydrochloric acid** and **calcium carbonate**:

**(Salt)**

Calcium chloride + water + carbon dioxide

Hydrochloric acid + calcium carbonate

Use the key from the previous page to help!

**1. Complete the following equations:**

Hydrochloric acid + lithium carbonate 🡪

Sulphuric acid + copper carbonate 🡪

Nitric acid + magnesium carbonate 🡪

Hydrochloric acid + sodium carbonate 🡪

Sulphuric acid + sodium carbonate 🡪

Nitric acid + lead carbonate 🡪

2. Write the equation for the reaction between magnesium carbonate and sulphuric acid.

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3. Describe the test you would carry out to test for carbon dioxide.

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Hint – Use a search engine

Displacement Reactions

The reactivity series can be used to predict if a **metal** will react with a **metal compound** (e.g. chloride, nitrate or sulphate).

The more reactive metal pushes out, or **displaces**,the less reactive metal from its compound.

Less Reactive Metal

More Reactive Metal Compound

Less Reactive Metal Compound

More Reactive Metal

E.g. 1. Magnesium + Copper Chloride 🡪 Magnesium Chloride + Copper

E.g. 2. Gold + Magnesium Nitrate 🡪 No reaction

**Displacement Word Equations** (A reaction may not have occurred – in which case, it stays the same)

1. Copper Sulphate + Magnesium 🡪 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_
2. Magnesium Sulphate + Iron 🡪 \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_
3. Iron Sulphate + Magnesium 🡪\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_
4. Copper Sulphate + Iron 🡪\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_
5. Magnesium Sulphate + Copper 🡪\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_
6. Iron Sulphate + Copper 🡪\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_

**Displacement Symbol Equations Extension (Level 7)**

Using the formula table below, write a symbol equation for as

many of the completed word equations above.

E.g. Lead Sulphate + Iron 🡪 Iron Sulphate + Lead

PbSO4 + Fe 🡪 FeSO4 + Pb

(Fe is more reactive, so it displaces Pb from SO4)

1. \_CuSO4\_\_\_ + \_Mg\_ 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_
2. \_\_\_\_\_\_\_\_\_ + \_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_
3. \_\_\_\_\_\_\_\_\_ + \_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_
4. \_\_\_\_\_\_\_\_\_ + \_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_
5. \_\_\_\_\_\_\_\_\_ + \_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_
6. \_\_\_\_\_\_\_\_\_\_ + \_\_\_\_ 🡪 \_\_\_\_\_\_\_\_\_ + \_\_\_\_

**Element & Compound Formula to Help**

**Mg**-Magnesium

**Fe**-Iron

**Cu**-Copper

**Al**-Aluminium

**SO4**-Sulphate

Extracting Metals

Hint – search ‘bitesize metal ores’

What is a metal ore?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Hint** – search ‘Aluminium ore’

Complete table

|  |  |  |
| --- | --- | --- |
| **Metal Extracted** | **Name of Ore** | **Mineral in the ore** |
| **Aluminium** |  |  |
| **Iron** |  |  |
| **Copper** |  |  |

Describe the positive and negative impacts of mining on a local community.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How are metals extracted using carbon?

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What is oxidation and reduction?

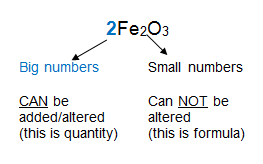
Oxidation\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Redcution\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Describe how metals above carbon are extracted by electrolysis. You can include a diagram too if you want to.

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Why is it important to recycle metals?

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Level 7a- Balance the equations below.

1. Fe2O3 + \_\_Al → Al2O3 + \_\_Fe
2. 2CaCl2 + \_\_Li 🡪 \_\_LiCl + \_\_Ca