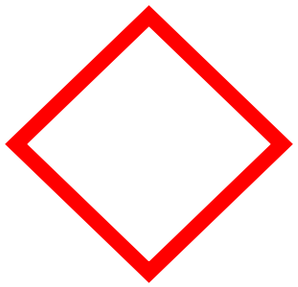
7F Acids & Alkalis- Revision Worksheet

Describe what the following **hazard symbol** means.

……

……

Draw the **hazard symbol** for a substance that is an **irritant** (**caution**).



State 3 **lab rules** for working **safely** during science practical's.

1.

2.

3.

Define the following words:

Risk	
Hazard	
Precaution	

Describe what an **indicator** is and how they are used.

……

……

Complete the following table to show different colours of **indicators**.

	Colour of Litmus indicator	Colour of universal indicator
Acid		
Neutral		
Alkali		

Explain how different **plants** can be used as **indicators**.

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……

……

State the **method** you would follow if trying to compare the **pH** of two different substances.

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……

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Complete the following table:

Name of chemical	**Colour of universal indicator**	**Acidic, alkaline or neutral**	**pH**
Hydrochloric acid		Very acidic	
			7
Sodium hydroxide	Purple		
Carbon dioxide solution		Not very acidic	

Describe the **hazards** of very strong **acids** or **alkalis**.

……

Add in the missing numbers on the **pH chart**.
Colour in each box the colour it would turn **universal indicator**.

Draw arrows from the following to show their **pH numbers**:

Water

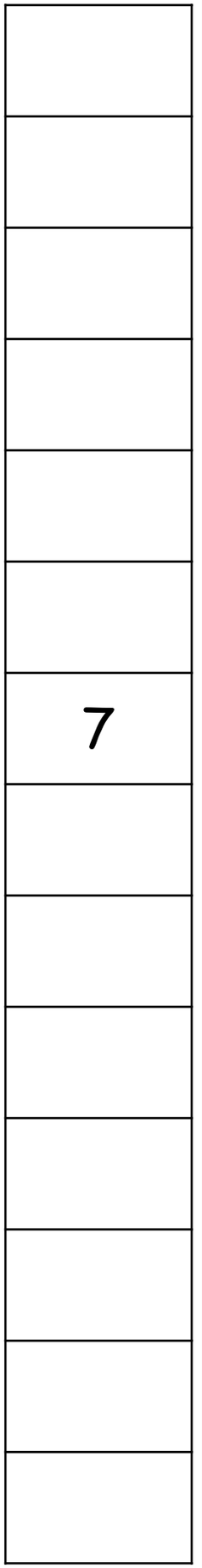
Toothpaste

Lemon Juice

Oven Cleaner

Rain Water

Shampoo



Describe what **neutralisation** is.

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Complete the **word equation** for a **neutralisation reaction**.

Acid + Alkali → …… + ……

Label the **reactants** and the **products** in this **reaction**.

Complete the following **word equations**.

Lithium hydroxide + hydrochloric acid → …… + water

…… + sulfuric acid → sodium sulfate + ……

State the name of the **salts** produced by each type of **acid**.

Acid	Salt
Hydrochloric	
Sulfuric	
Nitric	

Explain the changes to **pH numbers** that would occur during a **neutralisation reaction**.

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State the meaning of the word '**base**'

……

……

List 3 common uses of **neutralisation**.

1.

2.

3.

Explain why it is important to brush your teeth with **toothpaste**.

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……

……

……

Explain why **antacids** help with **indigestion**.

……

……

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Bee stings and **wasp stings** are treated with different substances. Explain why this is.

……

……

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……

Rate the following on how well you think you can do them:



I can…

- ☐ Recognise some common hazard symbols.
- ☐ Explain why hazard symbols are necessary.
- ☐ Recognise some common acids.
- ☐ Plan and explain safety precautions.
- ☐ Recognise hazards and explain how the risks can be controlled.
- ☐ Name examples of indicators made from plants.
- ☐ Describe how indicators can be used to test for acidic, alkaline or neutral solutions.
- ☐ Name some common examples of acids and alkalis.
- ☐ Describe the pH scale and how it is used.
- ☐ Describe how pH can be measured.
- ☐ Summarise information for titles and captions.
- ☐ Identify key words and noun phrases.
- ☐ Describe what happens during neutralisation.
- ☐ Write word equations for neutralisation reactions.
- ☐ Explain the pH changes taking place during neutralisation.
- ☐ Describe some examples of everyday acids and bases.
- ☐ Describe and explain some everyday neutralisation reactions.