**Lesson 1 - Acids and Alkalis**

***Starter –* Link the hazard symbols to the correct label and description.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Old hazardsymbol** | **New hazardsymbol** |  | **Name** |  | **Description** |
| **1** | oxo_act01_0801_as00_xxaw00e | oxo_act01_0801_as00_xxaw00j |  | Corrosive |  | This may dissolve or burn materials, including skin |
| **2** | oxo_act01_0801_as00_xxaw00a | oxo_act01_0801_as00_xxaw00k |  | Health hazard(Harmful) |  | This includes irritants, harmful substances, and some low-hazard substances |
| **3** | oxo_act01_0801_as00_xxaw00b | oxo_act01_0801_as00_xxaw00i |  | Explosive |  | This contains dangerous organisms such as bacteria |
| **4** | oxo_act01_0801_as00_xxaw00c | oxo_act01_0801_as00_xxaw00j |  | Flammable |  | This can be poisonous and possibly deadly |
| **5** | oxo_act01_0801_as00_xxaw00d | oxo_act01_0801_as00_xxaw00k |  | Toxic |  | This may explode |
| **6** | oxo_act01_0801_as00_xxaw00f | oxo_act01_0801_as00_xxaw00l |  | Caution(Irritant) |  | This can catch fire easily |

An **acid** is **…………………………………………………………………………………..……**

**………………………………………………………………………………………………………**

**………………………………………………………………………………………………………**

An **alkali** is **…………………………………………………………………………………**.....

**………………………………………………………………………………………………………**

**………………………………………………………………………………………………………**

A **concentrated solution** is**………………………………………………………………..**

Glue along here when sticking in your book ☺

**………………………………………………………………………………………………………**

**………………………………………………………………………………………………………**

A **dilute solution** is**…………………………………………………………………………..**

**………………………………………………………………………………………………………**

**………………………………………………………………………………………………………**

**Label** the **concentrated** and **dilute solutions** on the diagrams below…



***Testing for acids and alkalis***



**The pH scale allows us to measure how acidic or alkaline a solution is.**

**Acids** have a pH of less than ………………………………..

**Alkalis** have a pH of greater than ………………………………….

A **Neutral** pH is . An example of this would be ………………………………………