**Year 8 Revision of Physical and Chemical Changes and Gas production**

1. Indicate the type of change that these features represent.

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| **Feature** | **Chemical or Physical Change?** |
| No new substance produced |  |
| Colour change |  |
| Smelling gas or seeing bubbles |  |
| Melting |  |
| Seeing a new solid forming in clear solution |  |
| Mixing substances together |  |
| Energy being produced or absorbed |  |
| Change in shape (expansion and contraction) |  |

1. List some examples of chemical and physical changes.
2. What are the 2 reactants we use in each of the following gas productions (refer to your booklet and experiment write up). The first one has been done for you.

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| **Gas produced** | **Reactants** |
| Carbon Dioxide | Hydrochloric Acid (HCl) + Marble Chips (CaCO3) |
| Oxygen |  |
| Hydrogen |  |

1. Draw a diagram of the apparatus used to collect Carbon Dioxide and Oxygen gas. This is known as “downward displacement of water”. Remember to draw with a pencil and label your diagram.
2. What are the tests we use to test for the following gases, and describe the process that we use.

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| **Gas** | **Test** |
| Carbon Dioxide |  |
| Oxygen |  |
| Hydrogen |  |