|  |  |  |
| --- | --- | --- |
| **Topic/Skill** | **Definition/Tips**  **Topic: Functions** | **Example** |
| 1. Function Machine | Takes an **input** value, performs some **operations** and produces an **output** value. | Image result for function machine |
| 2. Function | A **relationship** between two sets of values. | ‘For any input value, square the term, then multiply by 3, then subtract 5’. |
| 3. Function notation | is the **input** value  is the **output** value. | Suppose the input value is  The output value is |
| 4. Inverse function | A function that performs the **opposite process** of the original function.  1. Write the function as  2. Rearrange to make the subject.  3. Replace the **with**  and the **with** | . Find the inverse. |
| 5. Composite function | A **combination** of two or more **functions** to create a new function.  is the composite function that **substitutes** the function **into** the function  means ‘**do g first, then f**’  means ‘**do f first, then g**’ | ,  What is ?  What is ? |

**Knowledge Organiser**