## <u>DT Key Knowledge Progression: Year 1 – Year 6</u>

#### Structures:

|   | Start at Year A                                 | Start at Year B                                 |
|---|-------------------------------------------------|-------------------------------------------------|
| Y | To understand that the shape of materials       | To know that shapes and structures with         |
| е | can be changed to improve the strength and      | wide, flat bases or legs are the most stable.   |
| а | stiffness of structures.                        | To understand that the shape of a structure     |
| r | To understand that cylinders are a strong       | affects its strength.                           |
| 1 | type of structure (and, therefore, they are     | To know that materials can be manipulated       |
|   | the main shape used for windmills and           | to improve strength and stiffness.              |
|   | lighthouses).                                   | To know that a structure is something which     |
|   | To understand that axles are used in            | has been formed or made from parts.             |
|   | structures and mechanisms to make parts         | To know that a 'stable' structure is one        |
|   | turn in a circle.                               | which is firmly fixed and unlikely to change    |
|   | To begin to understand that different           | or move.                                        |
|   | structures are used for different purposes.     | To know that a 'strong' structure is one        |
|   | To know that a structure is something that      | which does not break easily.                    |
|   | has been made and put together.                 | To know that a 'stiff' structure or material is |
|   | Kapow: Constructing a Windmill                  | one which does not bend easily.                 |
|   |                                                 | Kapow: Build a Chair                            |
| Y | To know that shapes and structures with         | To understand that the shape of materials       |
| е | wide, flat bases or legs are the most stable.   | can be changed to improve the strength and      |
| а | To understand that the shape of a structure     | stiffness of structures.                        |
| r | affects its strength.                           | To understand that cylinders are a strong       |
| 2 | To know that materials can be manipulated       | type of structure (and, therefore, they are     |
|   | to improve strength and stiffness.              | the main shape used for windmills and           |
|   | To know that a structure is something which     | lighthouses).                                   |
|   | has been formed or made from parts.             | To understand that axles are used in            |
|   | To know that a 'stable' structure is one        | structures and mechanisms to make parts         |
|   | which is firmly fixed and unlikely to change    | turn in a circle.                               |
|   | or move.                                        | To begin to understand that different           |
|   | To know that a 'strong' structure is one        | structures are used for different purposes.     |
|   | which does not break easily.                    | To know that a structure is something that      |
|   | To know that a 'stiff' structure or material is | has been made and put together.                 |
|   | one which does not bend easily.                 | Kapow: Constructing a Windmill                  |
|   | Kapow: Build a Chair                            |                                                 |
| Υ | To understand that wide and flat based          | Possible Enrichment: Kapow: Pavillions          |
| e | objects are more stable.                        |                                                 |
| а | To understand the importance of strength        |                                                 |
| r | and stiffness in structures.                    |                                                 |
| 3 | To know the following features of a castle:     |                                                 |
|   | flags, towers, battlements, turrets, curtain    |                                                 |
|   | walls, moat, drawbridge and gatehouse –         |                                                 |
|   | and their purpose.                              |                                                 |
|   | To know that a façade is the front of a         |                                                 |
|   | structure.                                      |                                                 |
|   | To understand that a castle needed to be        |                                                 |
|   | strong and stable to withstand enemy attack.    |                                                 |
|   | Kapow: Construct a Castle                       |                                                 |

| Y<br>e | Possible Enrichment: Kapow: Pavillions       | To understand that wide and flat based objects are more stable.                                                                                                                                         |
|--------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a<br>r |                                              | To understand the importance of strength and stiffness in structures.                                                                                                                                   |
| 4      |                                              | To know the following features of a castle:<br>flags, towers, battlements, turrets, curtain<br>walls, moat, drawbridge and gatehouse –<br>and their purpose.<br>To know that a façade is the front of a |
|        |                                              | structure.                                                                                                                                                                                              |
|        |                                              | To understand that a castle needed to be<br>strong and stable to withstand enemy attack<br>Kapow: Construct a Castle.                                                                                   |
| Y      | Possible Enrichment: Kapow: Bridges          | To know that structures can be strengthened                                                                                                                                                             |
| e      |                                              | by manipulating materials and shapes.                                                                                                                                                                   |
| а      |                                              | To understand what a 'footprint plan' is.                                                                                                                                                               |
| r -    |                                              | To understand that in the real world, design                                                                                                                                                            |
| 5      |                                              | ways                                                                                                                                                                                                    |
|        |                                              | To know that a prototype is a chean model                                                                                                                                                               |
|        |                                              | to test a design idea.                                                                                                                                                                                  |
|        |                                              | Kapow: Playgrounds                                                                                                                                                                                      |
| Y      | To know that structures can be strengthened  | Possible Enrichment: Kapow: Bridges                                                                                                                                                                     |
| e      | by manipulating materials and shapes.        |                                                                                                                                                                                                         |
| а      | To understand what a 'footprint plan' is.    |                                                                                                                                                                                                         |
| r      | To understand that in the real world, design |                                                                                                                                                                                                         |
| 6      | can impact users in positive and negative    |                                                                                                                                                                                                         |
|        | ways.                                        |                                                                                                                                                                                                         |
|        | Io know that a prototype is a cheap model    |                                                                                                                                                                                                         |
|        | to test a design idea.                       |                                                                                                                                                                                                         |
|        | Kapow: Playgrounds                           |                                                                                                                                                                                                         |

#### TEXTILES:

|   | Start at Year A                             | Start at Year B                              |
|---|---------------------------------------------|----------------------------------------------|
| Y | To know that sewing is a method of joining  | To know that 'joining technique' means       |
| e | fabric.                                     | connecting two pieces of material together.  |
| а | To know that different stitches can be used | To know that there are various temporary     |
| r | when sewing.                                | methods of joining fabric by using staples,  |
| 1 | To understand the importance of tying a     | glue or pins.                                |
|   | knot after sewing the final stitch.         | To understand that different techniques for  |
|   | To know that a thimble can be used to       | joining materials can be used for different  |
|   | protect my fingers when sewing.             | purposes.                                    |
|   | Kapow: Pouches                              | To understand that a template (or fabric     |
|   |                                             | pattern) is used to cut out the same shape   |
|   |                                             | multiple times.                              |
|   |                                             | To know that drawing a design idea is useful |
|   |                                             | to see how an idea will look.                |
|   |                                             | Kapow: Puppets                               |

| v         | To know that 'inining technique' means       | To know that sewing is a method of joining   |
|-----------|----------------------------------------------|----------------------------------------------|
|           | connecting two nieces of material together   | fabric                                       |
|           | To know that there are various temporary     | To know that different stitches can be used  |
| r         | methods of joining fabric by using staples   | when sowing                                  |
| '<br>  `` | due or pins                                  | To understand the importance of tying a      |
| 2         | give of pills.                               | In understand the importance of tying a      |
|           | ioining materials can be used for different  | To know that a thimble can be used to        |
|           |                                              | protect my fingers when sowing               |
|           | To understand that a template (or fabric     | Kanowy Doughos                               |
|           | no understand that a template (or labit      | Rapow. Pouches                               |
|           | multiple times                               |                                              |
|           | To know that drawing a design idea is useful |                                              |
|           | to soo how an idea will look                 |                                              |
|           | to see now an idea will look.                |                                              |
| v         | To know that a fastaning is compating that   | Dessible Envictments Kanowy                  |
|           | holds two pieces of material together        | Cushians (Collars                            |
| e         | To know that different factoring types are   | custions/conars                              |
| d<br>r    | to know that different purposes              |                                              |
| <br>  2   | To know that creating a mack up (prototypo)  |                                              |
| 5         | of their decign is useful for checking ideas |                                              |
|           | of their design is useful for thetking ideas |                                              |
|           | And proportions.                             |                                              |
|           |                                              | To know that a factoring is compathing that  |
| Ŷ         | Possible Enrichment: Kapow:                  | To know that a fastening is something that   |
| e         | Cushions/Collars                             | To know that different factoring types are   |
| d         |                                              | To know that different nurnesses             |
|           |                                              | To know that creating a mack up (prototypo)  |
| 4         |                                              | of their design is useful for checking ideas |
|           |                                              | and proportions                              |
|           |                                              | Kanow: Fastenings                            |
| v         | To understand that it is important to design | Possible Enrichment: Kapow: Stuffed Toys     |
|           | clothing with the client/target customer in  |                                              |
|           | mind                                         |                                              |
| r r       | To know that using a template (or clothing   |                                              |
| 5         | nattern) helps to accurately mark out a      |                                              |
|           | design on fabric                             |                                              |
|           | To understand the importance of              |                                              |
|           | consistently sized stitches                  |                                              |
|           | Kanow: Waistcoats                            |                                              |
| Y         | Possible Enrichment: Kanow: Stuffed Toys     | To understand that it is important to design |
|           |                                              | clothing with the client/target customer in  |
| a         |                                              | mind.                                        |
| r         |                                              | To know that using a template (or clothing   |
| 6         |                                              | pattern) helps to accurately mark out a      |
|           |                                              | design on fabric.                            |
|           |                                              | To understand the importance of              |
|           |                                              | consistently sized stitches.                 |
|           |                                              | Kapow: Waistcoats                            |

## **Cooking and Nutrition**

|   | Start at Year A                               | Start at Year B                               |
|---|-----------------------------------------------|-----------------------------------------------|
| Y | To know that 'diet' means the food and drink  | Possible Enrichment: Kapow: Fruit and         |
| e | that a person or animal usually eats.         | Vegetables                                    |
| а | To understand what makes a balanced diet.     |                                               |
| r | To know where to find the nutritional         |                                               |
| 1 | information on packaging.                     |                                               |
|   | To know that the five main food groups are:   |                                               |
|   | Carbohydrates, fruits and vegetables,         |                                               |
|   | protein, dairy and foods high in fat and      |                                               |
|   | sugar.                                        |                                               |
|   | To understand that I should eat a range of    |                                               |
|   | different foods from each food group, and     |                                               |
|   | roughly how much of each food group.          |                                               |
|   | To know that nutrients are substances in      |                                               |
|   | food that all living things need to make      |                                               |
|   | energy, grow and develop.                     |                                               |
|   | To know that 'ingredients' means the items    |                                               |
|   | in a mixture or recipe.                       |                                               |
|   | To know that I should only have a maximum     |                                               |
|   | of five teaspoons of sugar a day to stay      |                                               |
|   | healthy.                                      |                                               |
|   | To know that many food and drinks we do       |                                               |
|   | not expect to contain sugar do; we call these |                                               |
|   | 'hidden sugars'.                              |                                               |
|   | Kapow: A Balanced Diet                        |                                               |
| Y | Possible Enrichment: Kapow: Fruit and         | To know that 'diet' means the food and drink  |
| e | Vegetables                                    | that a person or animal usually eats.         |
| а |                                               | To understand what makes a balanced diet.     |
| r |                                               | To know where to find the nutritional         |
| 2 |                                               | information on packaging.                     |
|   |                                               | To know that the five main food groups are:   |
|   |                                               | Carbohydrates, fruits and vegetables,         |
|   |                                               | protein, dairy and foods high in fat and      |
|   |                                               | sugar.                                        |
|   |                                               | To understand that I should eat a range of    |
|   |                                               | different foods from each food group, and     |
|   |                                               | roughly how much of each food group.          |
|   |                                               | To know that nutrients are substances in      |
|   |                                               | food that all living things need to make      |
|   |                                               | energy, grow and develop.                     |
|   |                                               | To know that 'ingredients' means the items    |
|   |                                               | in a mixture or recipe.                       |
|   |                                               | Io know that I should only have a maximum     |
|   |                                               | of five teaspoons of sugar a day to stay      |
|   |                                               | nealthy.                                      |
|   |                                               | IO KNOW that many food and drinks we do       |
|   |                                               | not expect to contain sugar do; we call these |
|   |                                               | nidden sugars'.                               |
|   |                                               | Kapow: A Balanced Diet                        |

| Y<br>e<br>a<br>r<br>3 | To know that not all fruits and vegetables<br>can be grown in the UK.<br>To know that climate affects food growth.<br>To know that vegetables and fruit grow in<br>certain seasons.<br>To know that cooking instructions are known<br>as a 'recipe'.<br>To know that imported food is food that has<br>been brought into the country.<br>Kapow: Eating Seasonally                                                                                                                                                                                                                   | Possible Enrichment: Kapow: Adapting a<br>Recipe.                                                                                                                                                                                                                                                                                                                 |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Y<br>e<br>a<br>r<br>4 | Possible Enrichment: Kapow: Adapting a<br>Recipe.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | To know that not all fruits and vegetables<br>can be grown in the UK.<br>To know that climate affects food growth.<br>To know that vegetables and fruit grow in<br>certain seasons.<br>To know that cooking instructions are known<br>as a 'recipe'.<br>To know that imported food is food that has<br>been brought into the country.<br>Kapow: Eating Seasonally |
| Y<br>e<br>r<br>5      | To understand where meat comes from –<br>learning that beef is from cattle and how<br>beef is reared and processed, including key<br>welfare issues.<br>To know that I can adapt a recipe to make it<br>healthier by substituting ingredients.<br>To know that I can use a nutritional<br>calculator to see how healthy a food option<br>is.<br>To understand that 'cross-contamination'<br>means that bacteria and germs have been<br>passed onto ready-to-eat foods and it<br>happens when these foods mix with raw<br>meat or unclean objects.<br>Kapow: What Could Be Healthier | Possible Enrichment: Kapow: Come DIne<br>With Me                                                                                                                                                                                                                                                                                                                  |

| Y | Possible Enrichment: Kapow: Come DIne | To understand where meat comes from –        |
|---|---------------------------------------|----------------------------------------------|
| e | With Me                               | learning that beef is from cattle and how    |
| а |                                       | beef is reared and processed, including key  |
| r |                                       | welfare issues.                              |
| 6 |                                       | To know that I can adapt a recipe to make it |
|   |                                       | healthier by substituting ingredients.       |
|   |                                       | To know that I can use a nutritional         |
|   |                                       | calculator to see how healthy a food option  |
|   |                                       | is.                                          |
|   |                                       | To understand that 'cross-contamination'     |
|   |                                       | means that bacteria and germs have been      |
|   |                                       | passed onto ready-to-eat foods and it        |
|   |                                       | happens when these foods mix with raw        |
|   |                                       | meat or unclean objects.                     |
|   |                                       | Kapow: What Could Be Healthier               |

# Mechanisms and Mechanical Systems

|   | Start at Year A                              | Start at Year B                              |
|---|----------------------------------------------|----------------------------------------------|
| Y | Possible Enrichment: Kapow: Wheels and       | To know that mechanisms are a collection of  |
| e | Axles                                        | moving parts that work together as a         |
| а |                                              | machine to produce movement.                 |
| r |                                              | To know that there is always an input and an |
| 1 |                                              | output in a mechanism.                       |
|   |                                              | To know that an input is the energy that is  |
|   |                                              | used to start something working.             |
|   |                                              | To know that an output is the movement       |
|   |                                              | that happens as a result of the input.       |
|   |                                              | To know that a lever is something that turns |
|   |                                              | on a pivot.                                  |
|   |                                              | To know that a linkage mechanism is made     |
|   |                                              | up of a series of levers.                    |
|   |                                              | Kapow: Make a Moving Monster                 |
| Y | To know that mechanisms are a collection of  | Possible Enrichment: Kapow: Wheels and       |
| e | moving parts that work together as a         | Axles                                        |
| а | machine to produce movement.                 |                                              |
| r | To know that there is always an input and an |                                              |
| 2 | output in a mechanism.                       |                                              |
|   | To know that an input is the energy that is  |                                              |
|   | used to start something working.             |                                              |
|   | To know that an output is the movement       |                                              |
|   | that happens as a result of the input.       |                                              |
|   | To know that a lever is something that turns |                                              |
|   | on a pivot.                                  |                                              |
|   | To know that a linkage mechanism is made     |                                              |
|   | up of a series of levers.                    |                                              |
|   | Kapow: Make a Moving Monster                 |                                              |

| Y | Possible Enrichment: Kapow: Pneumatic Toys                                | To understand that all moving things have     |
|---|---------------------------------------------------------------------------|-----------------------------------------------|
| е |                                                                           | kinetic energy.                               |
| а |                                                                           | To understand that kinetic energy is the      |
| r |                                                                           | energy that something (object/person) has     |
| 3 |                                                                           | by being in motion.                           |
|   |                                                                           | To know that air resistance is the level of   |
|   |                                                                           | drag on an object as it is forced through the |
|   |                                                                           | air.                                          |
|   |                                                                           | To understand that the shape of a moving      |
|   |                                                                           | object will affect how it moves due to air    |
|   |                                                                           | resistance.                                   |
|   |                                                                           | Kapow: Make a Slingshot Car                   |
| Y | To understand that all moving things have                                 | Possible Enrichment: Kapow: Pneumatic Toy     |
| e | kinetic energy.                                                           |                                               |
| a | To understand that kinetic energy is the                                  |                                               |
|   | energy that something (object/person) has                                 |                                               |
| 4 | by being in motion.                                                       |                                               |
|   | To know that air resistance is the level of                               |                                               |
|   | drag on an object as it is forced through the                             |                                               |
|   |                                                                           |                                               |
|   | Io understand that the shape of a moving                                  |                                               |
|   | object will affect now it moves due to air                                |                                               |
|   | resistance.                                                               |                                               |
| v | Rapow. Make a Silligshot Car<br>Descible Enrichment: Kanow: Automata Toys | To know that machanisms control               |
|   | Possible Enrichment. Rapow. Automata Toys                                 | novement                                      |
| a |                                                                           | To understand that mechanisms can be used     |
| r |                                                                           | to change one kind of motion into another.    |
| 5 |                                                                           | To understand how to use sliders, pivots and  |
|   |                                                                           | folds to create paper-based mechanisms.       |
|   |                                                                           | To know that a design brief is a description  |
|   |                                                                           | of what I am going to design and make.        |
|   |                                                                           | To know that designers often want to hide     |
|   |                                                                           | mechanisms to make a product more             |
|   |                                                                           | aesthetically pleasing.                       |
|   |                                                                           | Kapow: Make a Pop Up Book                     |
| Y | To know that mechanisms control                                           | Possible Enrichment: Kapow: Automata Toys     |
| е | movement.                                                                 |                                               |
| а | To understand that mechanisms can be used                                 |                                               |
| r | to change one kind of motion into another.                                |                                               |
| 6 | To understand how to use sliders, pivots and                              |                                               |
|   | folds to create paper-based mechanisms.                                   |                                               |
|   | IO KNOW THAT A design brief is a description                              |                                               |
|   | or what I am going to design and make.                                    |                                               |
|   | no know that designers often want to hide                                 |                                               |
|   | aesthetically pleasing                                                    |                                               |
|   | acsinetically pleasing.<br>Kanow: Make a Don Lin Book                     |                                               |
|   | rapow. wake a rup up buuk                                                 |                                               |

| Digital | Morld  |
|---------|--------|
| Digital | vvoriu |

|        | Start at Year A                                 | Start at Year B                                 |
|--------|-------------------------------------------------|-------------------------------------------------|
| Y      | N/A                                             | N/A                                             |
| P      |                                                 |                                                 |
| a      |                                                 |                                                 |
| r      |                                                 |                                                 |
| 1      |                                                 |                                                 |
| Y      | N/A                                             | N/A                                             |
| P      |                                                 |                                                 |
| a      |                                                 |                                                 |
| r      |                                                 |                                                 |
| 2      |                                                 |                                                 |
| -<br>V | Possible Enrichment: Kanow: Mindful             | To understand that in programming a 'loon'      |
| P      | Moments Timer                                   | is code that repeats something again and        |
| a      |                                                 | again until stopped                             |
| r      |                                                 | To know that a Micro bit is a pocket-sized.     |
| 3      |                                                 | codeable computer.                              |
| Ũ      |                                                 | Writing a program to control (button press)     |
|        |                                                 | and/or monitor (sense light) that will initiate |
|        |                                                 | a flashing I FD algorithm                       |
|        |                                                 | Kapow: Electronic Charms                        |
| Y      | To understand that in programming a 'loop'      | Possible Enrichment: Kanow: Mindful             |
| e      | is code that repeats something again and        | Moments Timer                                   |
| a      | again until stopped                             |                                                 |
| r      | To know that a Micro bit is a pocket-sized.     |                                                 |
| 4      | codeable computer.                              |                                                 |
|        | Writing a program to control (button press)     |                                                 |
|        | and/or monitor (sense light) that will initiate |                                                 |
|        | a flashing LFD algorithm.                       |                                                 |
|        | Kapow: Electronic Charms                        |                                                 |
| Y      | To know that accelerometers can detect          | Possible Enrichment: Kapow: Monitoring          |
| e      | movement.                                       | Devices                                         |
| a      | To understand that sensors can be useful in     |                                                 |
| r      | products as they mean the product can           |                                                 |
| 5      | function without human input.                   |                                                 |
| -      | To know that designers write design briefs      |                                                 |
|        | and develop design criteria to enable them      |                                                 |
|        | to fulfil a client's request                    |                                                 |
|        | To know that 'multifunctional' means an         |                                                 |
|        | object or product has more than one             |                                                 |
|        | function.                                       |                                                 |
|        | To know that magnetometers are devices          |                                                 |
|        | that measure the Farth's magnetic field to      |                                                 |
|        | determine which direction you are facing        |                                                 |
|        | Kapow: Navigating the World                     |                                                 |

| Y | Possible Enrichment: Kapow: Monitoring | To know that accelerometers can detect      |
|---|----------------------------------------|---------------------------------------------|
| е | Devices                                | movement.                                   |
| а |                                        | To understand that sensors can be useful in |
| r |                                        | products as they mean the product can       |
| 6 |                                        | function without human input.               |
|   |                                        | To know that designers write design briefs  |
|   |                                        | and develop design criteria to enable them  |
|   |                                        | to fulfil a client's request.               |
|   |                                        | To know that 'multifunctional' means an     |
|   |                                        | object or product has more than one         |
|   |                                        | function.                                   |
|   |                                        | To know that magnetometers are devices      |
|   |                                        | that measure the Earth's magnetic field to  |
|   |                                        | determine which direction you are facing.   |
|   |                                        | Kapow: Navigating the World                 |
|   |                                        |                                             |

## **Electrical Systems**

|   | Start at Year A                             | Start at Year B                               |
|---|---------------------------------------------|-----------------------------------------------|
| Y | N/A                                         | N/A                                           |
| e |                                             |                                               |
| а |                                             |                                               |
| r |                                             |                                               |
| 1 |                                             |                                               |
| Y | N/A                                         | N/A                                           |
| e |                                             |                                               |
| a |                                             |                                               |
| r |                                             |                                               |
| 2 |                                             |                                               |
| Y | Possible Enrichment: Kapow: Electric Poster | To understand that electrical conductors are  |
| е |                                             | materials which electricity can pass through. |
| а |                                             | To understand that electrical insulators are  |
| r |                                             | materials which electricity cannot pass       |
| 3 |                                             | through.                                      |
|   |                                             | To know that a battery contains stored        |
|   |                                             | electricity that can be used to power         |
|   |                                             | products.                                     |
|   |                                             | To know that an electrical circuit must be    |
|   |                                             | complete for electricity to flow.             |
|   |                                             | To know that a switch can be used to          |
|   |                                             | complete and break an electrical circuit.     |
|   |                                             | Kapow: Torches                                |

| V | To understand that electrical conductors are   | Possible Enrichment: Kanow: Electric Poster |
|---|------------------------------------------------|---------------------------------------------|
|   | materials which electricity can pass through   |                                             |
| e | Thaterials which electricity can pass through. |                                             |
| a | To understand that electrical insulators are   |                                             |
| r | materials which electricity cannot pass        |                                             |
| 4 | through.                                       |                                             |
|   | To know that a battery contains stored         |                                             |
|   | electricity that can be used to power          |                                             |
|   | products.                                      |                                             |
|   | To know that an electrical circuit must be     |                                             |
|   | complete for electricity to flow.              |                                             |
|   | To know that a switch can be used to           |                                             |
|   | complete and break an electrical circuit.      |                                             |
|   | Kapow: Torches                                 |                                             |
| Y | Possible Enrichment: Kapow: Doodlers           | To know that 'form' means the shape and     |
| e |                                                | appearance of an object.                    |
| а |                                                | To know the difference between 'form' and   |
| r |                                                | 'function'.                                 |
| 5 |                                                | To understand that 'fit for purpose' means  |
|   |                                                | that a product works how it should and is   |
|   |                                                | easy to use.                                |
|   |                                                | To know that 'form over purpose' means      |
|   |                                                | that a product looks good but does not work |
|   |                                                | very well                                   |
|   |                                                | To know the importance of 'form follows     |
|   |                                                | function' when decigning: the product must  |
|   |                                                | he designed primarily with the function in  |
|   |                                                | mind                                        |
|   |                                                | Thing.                                      |
|   |                                                | To understand the diagram perspectives top  |
|   |                                                | view, side view and back.                   |
|   |                                                | Kapow: Steady Hand Game                     |
| Υ | To know that 'form' means the shape and        | Possible Enrichment: Kapow: Doodlers        |
| e | appearance of an object.                       |                                             |
| а | To know the difference between 'form' and      |                                             |
| r | 'function'.                                    |                                             |
| 6 | To understand that 'fit for purpose' means     |                                             |
|   | that a product works how it should and is      |                                             |
|   | easy to use.                                   |                                             |
|   | To know that 'form over purpose' means         |                                             |
|   | that a product looks good but does not work    |                                             |
|   | very well.                                     |                                             |
|   | To know the importance of 'form follows        |                                             |
|   | function' when designing: the product must     |                                             |
|   | be designed primarily with the function in     |                                             |
|   | mind.                                          |                                             |
|   | To understand the diagram perspectives 'top    |                                             |
|   | view'. 'side view' and 'back'.                 |                                             |
|   | Kapow: Steady Hand Game                        |                                             |