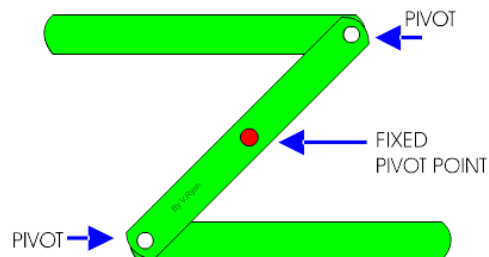


Design & Technology Subject Knowledge Organizer – Key Stage 2

Year 3 – Mechanisms using Levers and Linkages

| My Key Objectives | |
|-------------------|--|
| 1 | I can identify levers and linkages |
| 2 | I can explain the difference between a lever and a linkage |
| 3 | I can follow instructions to create movement using a lever and linkage mechanism |
| 4 | I can produce drawings to communicate my design using labels and annotations |
| 5 | I can measure, mark out, cut and assemble components with increased accuracy. |
| 6 | I can use finishing techniques to strengthen and improve the appearance of my product using a range of equipment including ICT |
| 7 | I can evaluate my product by asking and answering questions about the design and make process |



| Teacher Resources | |
|-------------------|--|
| 1 | Examples of a range of products that use levers and linkages – e.g. moving cards |
| 2 | Recycled card |
| 3 | Paper |
| 4 | Card |
| 5 | Ruler |
| 6 | Split pins |
| 7 | Scissors |
| 8 | Flag templates |

| Skills | |
|--------|---|
| 1 | Measuring accurately |
| 2 | Cutting accurately |
| 3 | Assembling a mechanism |
| 4 | Creating a pivot point |
| 5 | Creating movement by use of a lever & linkage mechanism |

| My Vocabulary | |
|---------------|--------------|
| 1 | Mechanism |
| 2 | Lever |
| 3 | Linkage |
| 4 | Design Brief |
| 5 | Generate |
| 6 | Loose pivot |
| 7 | Fixed pivot |
| 8 | Guide |
| 9 | Bridge |
| 10 | System |
| 11 | Input |
| 12 | Output |
| 13 | Pivot point |
| 14 | Position |