|  |  |
| --- | --- |
| Mechanisms work in the same way as an electrical system. Levers and linkages OUTPUT INPUT PROCESS The change in ---------------------------------------------------------------E.g. The ------------------- parts react to the--------------------------------------------------E.g. | What do mechanisms do? They make jobs ----------- to do, ---------------------------------------------------------------------------------- |
| Levers The input ------------- the system.E.g.A lever is the simplest kind of mechanism, it --------------------------------------------------Common use of a lever is to -----------------------------------------------------------------------

|  |  |
| --- | --- |
| Load  | The------ is the **--------** you are trying to**---------------------** |
| Fulcrum  | The **------------** is the point that **------------** from its spot. |
| Effort  | The **--------** is the point where **---------------------------**. Usually it's where someone will push or pull on the lever. |

Image result for effort load and fulcrum diagram  |
| **Classes of levers** |
| Class 1  | A class 1 lever has the ---------and the --------on opposite sides of the --------------, like a seesaw. | Picture |
| Class2 | A Class 2 lever has the -------- between the ---------- and the ---------- | Picture |
| Class3  | A class 3 lever has the **-------------------------------------------------** the load and the fulcrum.  | Picture |
| I will remember this by: |

|  |
| --- |
| Image result for cartoon seesaw class 1 leverImage result for cartoon scissorsExamples of class 1 products  |
| Image result for class 2 lever nutcrackerImage result for cartoon wheelbarrowExamples of class 2 products |
| Image result for staplerImage result for cartoon tweezersExamples of class 3 products |
| A linkage is a **----------------------------------------------------------------------------------.**  |
| Name ----------------http://www.technologystudent.com/cams/linkag1a.gifAs the ----- rod moves to the ---- the ---------rod moves to the -------The bars move in----------------------  | Linkages are used to :If the fixed point was not central |
| CamsA cam is a shaped piece of metal or plastic ----------------------------- -------------. When the cam --------, the follower --------------Cams are used to ---------------------------------------------------------------------- | http://www.technologystudent.com/cams/eccentric3.gifAn ………………. cam is a disc with its …………………………………… positioned ………………To alter the speed of the follower: |
| Image result for drop, guide, follower, roller on a camLabel the parts to the cam mechanism. (wrong way around to fit it on page!) |