|  |  |  |  |
| --- | --- | --- | --- |
| 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 | |
| Class  2 | A Class 2 lever has the -------- between the ---------- and the ---------- | Picture | |
| Class  3 | 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.gif  As 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 |
| Cams  A 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 cam  Label the parts to the cam mechanism. (wrong way around to fit it on page!) | |