E

E

R

R

E

Second Class Lever

Third Class Lever

First Class Lever

R

COMPONENTS: Fulcrum Resistance Arm (R) Effort Arm (E)

**Categorize each of the following items as to which class of lever they fit into and place it in the appropriate column of the chart below:**

A hoe in the garden

Casting a fishing pole

Using a hammer claw to remove a nail

Bottle Cap Opener (by hand)

Teeter Totter

Wheelbarrow

Using a pen or pencil

Using a shovel

A pair of scissors

An appliance dolly

Swinging a baseball bat

Putting your head on your

chest

Standing on your toes

Tweezers to pluck a sliver or eyebrow

Pliers

Nut cracker

Opening a door by the knob

Using a hammer to hit a nail

Crowbar for prying heavy objects

Biceps curl with weights

Can Opener (into can)

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| --- | --- | --- |
| **First Class Levers** | **Second Class Levers** | **Third Class Levers** |
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| --- | --- | --- |
| **First Class Levers** | **Second Class Levers** | **Third Class Levers** |
|  |  |  |
| Hammer claw | Nut cracker | Hoe |
| Teeter totter | Bottle cap opener | Fishing pole |
| Scissors | wheelbarrow | Baseball bat |
| Head on chest | Pencil or pen | Shovel |
| Pliars | Appliance dolly | Biceps curl |
| Crowbar | Standing on toes | Tweezers |
| Can opener | Door knob | Hammer |
|  |  |  |

Consider where the effort (force), resistance (load), and fulcrum go in each case.







