**Basic Mechanical**

# Intro Simple machines

Lever

Wheel & axle Pulley Inclined plane Wedge

Screw

# Levers

Class 1

Class 2

Class 3 Resistance Effort

Mechanical advantage

# Cranks

Reciprocating motion Circular motion

# Linkages

Four link

# Springs

Types

# Cams

Spring washers Coiled compression Extension

Torsion

Plate Cylindrical Linear motion Followers

Plain Roller

Stroke

# Timing

Continuous Motion Mechanism Intermittent Motion Mechanism Elements

Timing Position Stroke

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