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
  - Spring washers
  - Coiled compression
  - Extension
  - Torsion

**Cams**
- Plate
- Cylindrical
- Linear motion
- Followers
  - Plain
  - Roller
- Stroke

**Timing**
- Continuous Motion Mechanism
- Intermittent Motion Mechanism
- Elements
  - Timing
  - Position
  - Stroke

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