

Science 8 – Mechanical Systems

Outcome	Activity title / description	Notes	Non- Consumable materials	Consumable materials	School provided materials
1	Simple Machines – The right machine for the job.	See SA p. 266-267.	Meter stick, 1kg mass, spring scale, pulleys, ramp, fulcrum	String	
2	Complex Machines: Analyzing a Complex Device	See SA p. 271	Complex machine such as a pencil sharpener, bicycle, hand winch, etc.		
3	Bicycle Gears	See SA p. 274	Multi-geared bicycle		
4	Bouncy Balls - Efficiency		Variety of bouncing balls, meter stick		
3	Mechanical advantage in a hydraulic jack	See SA p. 296	50 ml syringes with platforms, 10 mL syringe, plastic tub, latex tubing, burette clamps, support stands, 1kg masses		
3	Hydraulic egg-box monsters		Plastic syringes, rubber tubing	Egg box, Food coloring,	Water, craft materials
3,4	Mouse Trap Machines		Mouse traps, wheels and axles, gears, spring scales	Various spools, wheels, popsicle sticks, straws, tape, string, etc.	
3	Rube Goldberg Machines				

