

Name: Key
Simple machines summary

Period: _____
Date: _____

$$I_F \times I_D = O_F \times O_D$$

Machine	Basic drawing	Input		Output		Change direction of force: Yes/No	Real life examples
		Input force: Big/Small	Input distance: Big/Small	Output force: Big/Small	Output distance: Big/Small		
Inclined plane		Small	Big	Big	Small	No	Ramps, Stairs, Ladder
Wedge		—	—	—	—	Yes	Nail Tip, Axe, Teeth
First class lever		Small	Big	Big	Small	Yes	See Saw, Hammer, Catapult
Second class lever		Small	Big	Big	Small	No	Dolly, Wheelbarrow
Third class lever		Big	Small	Small	Big	No	Broom, Hockey stick
Screw		Small	Big	Big	Small	Yes	Bolt, Jar lid
Fixed pulley		—	—	—	—	Yes	Cable Machine
Movable pulley		Small	Big	Big	Small	No	Crane
Block and tackle pulley		Small	Big	Big	Small	*Yes	Sail
Wheel		Small	Big	Big	Small	No	Screwdriver
Axle		Big	Small	Small	Big	No	Axle of a car