iame:				Date:	Period:			
		Sim	ple Machines	Notes, Part 2				
I.	Sir	Simple Machines						
	a.	Α	is a de	vice that helps	the amount of			
	required to do work. Work is done when a force (
		is applied over a distance.						
	b. Ways simple machines make work easier							
	i							
		ii						
		III						
	C.	 The	of the simple mach	ines can	the amount of			
		requried to do						
	d.			, and con	nplex ()			
		machines.						
	e.	Types of Simple Ma	achines:					
		i						
		ii						
		iii						
		iv						
		V						
II.	Le	vers						
	a.	Α		bar or board that is _				
		around a fixed poir	nt called a	·				
	h	Dv	the distant	so the offert force moves				
	υ.			oves, a lever can	the effort			
		force needed.		oves, a level call	נוופ פווטונ			
		TOTCE HEEGEG.						

	lift a weight in ways:	 or force required to
	i	
	ii	
a.	Levers that have the fulcrum is located can	
	iis located call	
	ii.	
e.	Levers that have the	
	the to lift a weight on t	
	i. ii	
f.	Levers that have the fulcrum on the	
	end to a weight in the _	
	i	
	ii.	

Name:			 Date:	Period:
		Simple Machine	s Notes, Par	† 3
I.	Pu	ılleys		
		A pulley has a	with a	running along the groove.
		i. Pulleys can	the amount and/or th	o of the
	i. Pulleys can applied (effort			e of the
		ii. By arranging the pulleys in such a		the
		that the effort force moves		
		moves, a pulley can		
	b.	pulleys are used	I to reduce the effort for	orce.
	i. Pulleys that are moveable, meaning that they are to			
		structure can be found on constru	uction cranes and as pa	rt of a block and tackle system.
	c.	A single pulley changes		
(you pull and the weight goes).				
 Pulleys that are fixed, meaning that they are to a structure 				
		found on the top of a		
		Moveable Pulley	1	Fixed Pulley
II.	Ind	clined Plane		
		An inclined plane is a	surface, like a ramp	, that the
		amount of force required to	_	
b. By the distance the effort moves (length of the			n of the ramp)	
	to the distance the weight is (height of the ramp), an inclined the effort force needed.			ramp), an inclined plane can
	c.	An inclined plane can be designed to red	uce the force needed t	o lift a weight in 2 ways:
	Inc	rease the lengeth of the ramp.	Decrease t	he height of the ramp.

	d. Inclined planes with a sloping surface	Inclined planes with a sloping surface can be found as ramps on a		
	wheelchair and	·		
III.	Wedges			
	a. Inclined planes are used to make wed	dges. One inclined plane or 2 inclined planes bac	ck to back	
	that can move are wedges.			
	i. Example:			
	1			
15.7	2			
IV.	Screw	ana un dia		
		around a or		
	are called			
	i. Example:			
	1			
	2			
	Mile and O. Avida			
V.	Wheel & Axle	ahiasta		
	a. Wheel and axles consist of two			
	i. A central	 through the of a		
	b. Wheel and axles can be found as		•	
	i			
	ii			
	iii			
VI.	Complex Machines			
	-	machines, consist of	or	
	more machin			
	b. Examples:			
	•			
	• ——————————			

Scissors	A fishing pole	A bicycle

C14, Machines Physical Science (8A) Coach Dave Edinger