Chapter 12: Work and Machines		page 20	Name	
Worksheet: Machine Vocab	ulary		Period	Date
(Frameworks Code)				•
Determine whether the italicize "true" in the blank. If the state				statement is true, write the word tes the statement true.
1	. A device that	makes work easi	er or more effect	ive is called a <i>machine</i> .
2. There are four basic kinds of s			imple machines.	
3	. The number o	of times a machin	e multiplies the f	Force exerted on the machine is
	the output for	ce of the machine	e.	
4	. A bar that is f	ree to move abou	ut a fixed point is	s a fulcrum.
5	. A grooved wh	neel with a rope of	or chain running t	hrough the groove is a <i>pulley</i> .
6	. A system of v	wheels with teeth	is called an axle	
7	. A sloping sur	face used to raise	objects is a wed	ge.
8	. A screw is an	inclined plane w	rapped in a spira	ıl around a cylinder.
9	. A wheel and a	axle is a simple n	nachine consisting	g of two wheels of different
	diameters that	t rotate together a	about a common	axis.
10	An inclined p	lane with two slo	oping sides is a so	crew.
11	. The mechanic	al advantage of a	ı fixed pulley is a	lways <i>two</i> .
	. The mechanic	al advantage of a	a block and tackle	e is equal to the <i>number of</i>
	sections of the	e rope that supp	ort the object.	
13	. A machine ma	ade up of two or	more simple mac	hines is an ideal machine.
14	. Usually the ef	ficiency of a real	l machine is alwa	ays <i>greater</i> than 100%.
15	. To do work, a	force must be a	pplied in the dire	ection of the object's motion.
16	The unit for m	neasuring work is	s a newton.	
17	The force exer	rted by the mach	ine is the <i>output</i> ;	force.
18	. Mechanical a	dvantage compa	res the work out	put to the work input.
19	The input arm	i is the distance b	etween the fulcr	um and the object being moved.
20	. The type of m	echanical advant	tage that does no	t account for friction is ideal
	mechanical ad	vantage.		
21	. The distance t	hat the person us	sing a machine m	ust move the machine is the
	output distanc	e.		
22	. A first class le	ever has the fulcr	um in the center.	
23	. A <i>fixed</i> pulley	is attached to th	e object being m	oved.