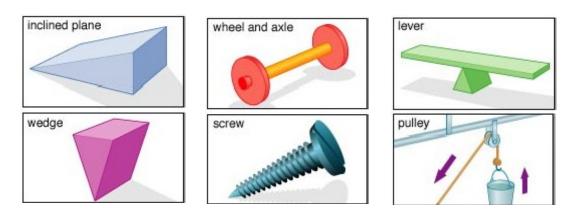
An Introduction to Machines SPH4C

A machine is a	that helps us	<u></u> ·
It may:		
• transform	(e.g. an)	
• transfer	(e.g. a)	
• change the	of a force (e.g. a)	
• change the	of a force (e.g. a)	
change distance	or speed (e.g)	
Many machines are	machines, constructed of several	
machines working togethe	er.	
Simple machines can be	split into 2 families:	
• the	_ family	
• the	family	
A lever is a rigid bar that	can freely around a support called a	
Pulleys, wheels, and gear	s all rotate around a fulcrum.	
The inclined plane family	consists of the:	
• inclined plane		
•		
•		
An inclined plane is simple	oly a ramp that moves something a	ıs it moves
vertically (and	may be included).	
A wedge is a	inclined plane.	
A screw is an inclined pla	ne a central axis.	
Biomechanical systems, v	vhich are systems involving a, ca	n also be
understood as machines,	e.g. the human forearm works as a	

More Practice



Identify each of the following as a lever, pulley, wheel and axle, inclined plane, wedge, or screw:

