## Wedges

A wedge is made up of two inclined planes. Unlike an inclined plane which does not move, the wedge moves to do work. Wedges can be used to lift things, separate things, or tighten and attach things in place. Use the terms in the word box to label each use of a wedge.

lift	separate	tighten	attach	
0	A nail is a	wedge. Drive the nail into a	block of wood.	
0	A doorstop	_ A doorstop is a wedge. Prop a door open with a doorstop.		
3	The blades pruners.	of a pruner are wedges. Cut	a branch with the	
6	The blades cut paper.	on a pair of scissors are wed	lges. Use the scissors to	
<b>9</b>	A piece of heavy box.	wood can be a wedge. A ma	n slips a wedge under a	
6	A chisel is	a wedge. An artist uses a chis	sel to carve a statue.	
0	Paper stap	les are wedges. Use staples to	o hold pages together.	
8	An axe is a	wedge. Use an axe to split a	log.	
9		ges of wood can tighten a loc to the space where the chair l	-	
0	Wedges of	metal can secure the head o to the wood where the hand	f an axe. Pound the	
0	The edge of	of a snow shovel is a wedge. our driveway.		
0	The blade	of a knife is a wedge. Be care a hamburger with the wedge		

## Screws

Screws are a simple machine that is a combination of other simple machines. Match each word in the word box to its description.

$\left( \right)$	inclined plane wheel and axle wedge drill		threads handle force jackscrew	turned axle distance		
0		This is a va or other m		esigned to make holes in wood		
0		<ul> <li>A screw is one of these wrapped around a cylinder.</li> <li>With the use of a screwdriver, this is done to the screw as it enters the wood or other material.</li> </ul>				
8						
6	· · · · · · · · · · · · · · · · · · ·	When you are moving the screw with a screwdriver, you are really moving it with this simple machine.				
6		Without the threads, a screw is basically a nail, which is an example of this.				
6		When driving a nail, it takes a lot of this to push apart the wood as the nail enters it.				
0	a in the set	On a screw, the inclined plane forms these ridges in a spiral along the cylinder.				
8	r <u></u>		_ When turning a screw, it takes less force but you use more of this as the screw enters the wood.			
9	· · · · · · · · · · · · · · · · · · ·	_ This tool is a variation of a screw that allows a platform to raise and lower extremely heavy objects.				
0		_ This part of the screwdriver acts as a wheel to do the work.				
0	National Second Second	The shaft of the screwdriver and the screw itself act as one of these to do the work.				