

Simple Machines

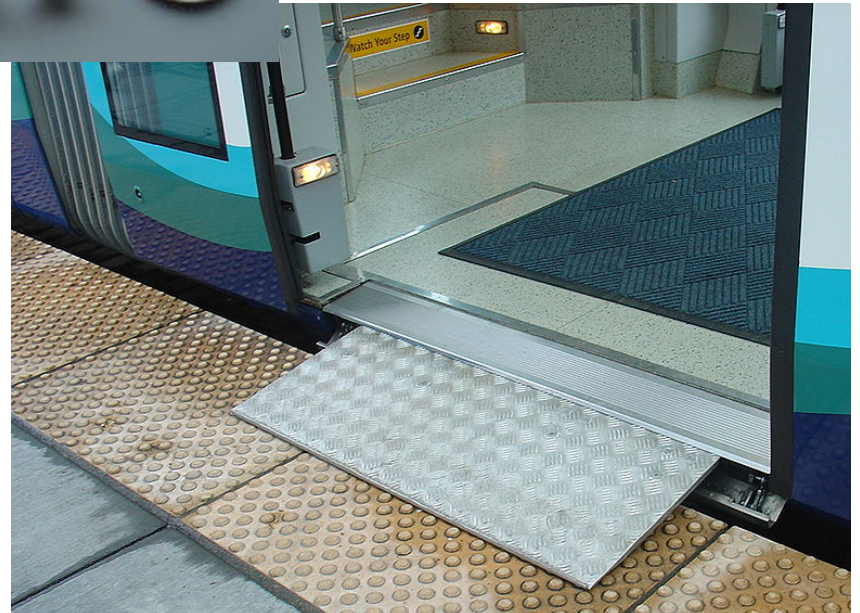


Photo: Pulleys on a ship. August, 1994. ©1994 by Leo-setä in en:wikipedia. Some rights reservedCC-BY-2.0 (www.creativecommons.org/licenses/by/2.0).

Photo: Photo: Various screws: differing sizes and colors, several Phillips, a flathead, and a Torx. Also included: wall anchor screws (one expanded), and a US quarter for scale. Released into public domain by Brianiac in en:wikipedia.

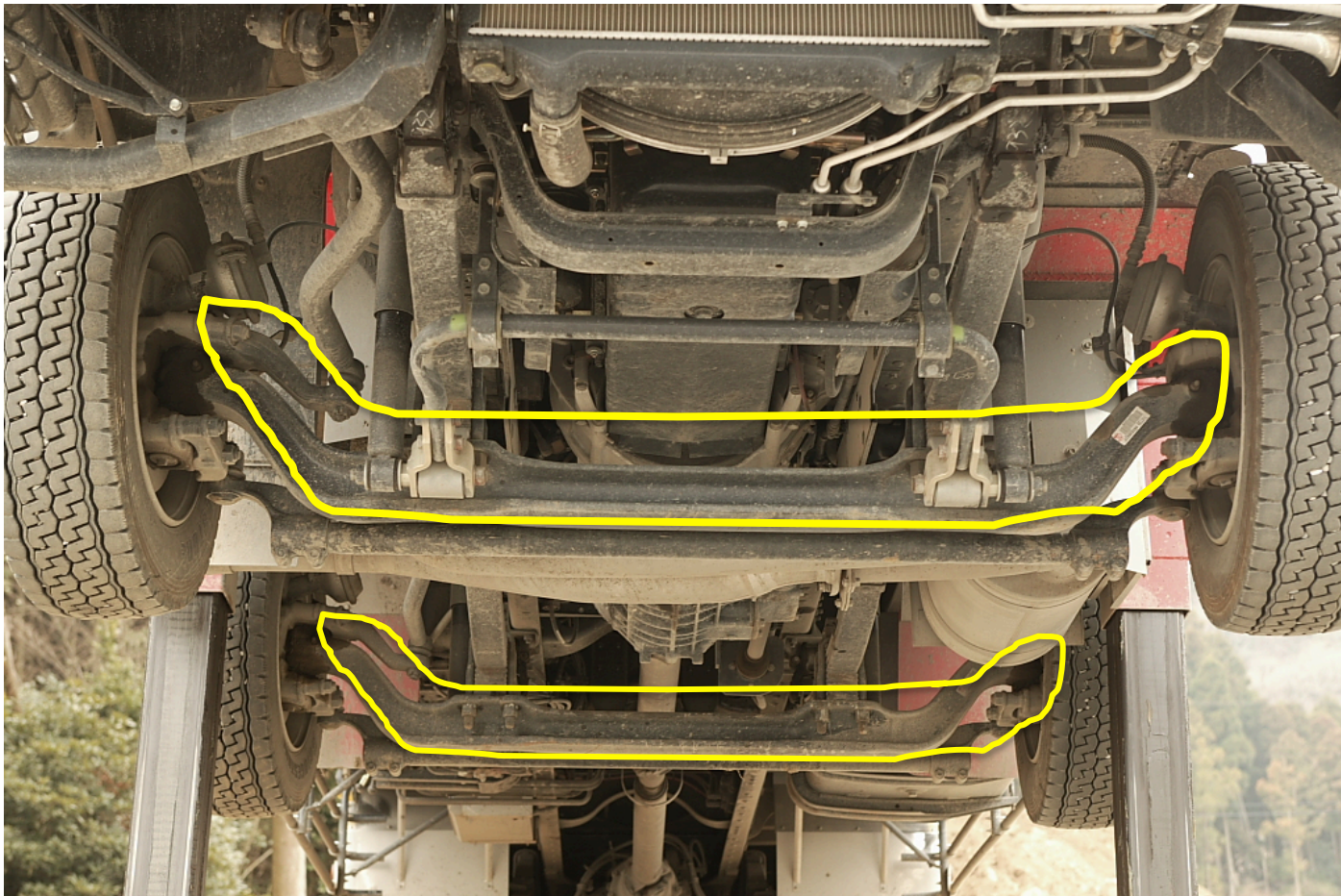
Photo: Wheelchair ramp in Tacoma, Washington, U.S. December 2004. ©2004 by Oran Viriyincy. Some rights reserved CC-BY-SA-2.0 (www.creativecommons.org/licenses/by-sa/2.0).

Axle

(ax·le)

Definition: The bar that connects two wheels on a vehicle.

Example: A car has two *axles*. One *axle* for the front wheels and another *axle* for its rear wheels.



Curved

(curved)

Definition: A line or shape that bends like part of a circle.

Example: The race track is *curved* so that the drivers can go around the corners more easily.



Photo: Looking north at Aqueduct Racetrack. November, 2010. Released into public domain by Ajfidelity in en:wikimedia.

Fulcrum

(ful·crum)



Inclined

(in·clined)



Photo: Dog on A-frame agility test. January, 2006. Released into public domain by Prskavka in en:wikipedia.

Lever

(lev·er)

A long piece of metal, wood, etc. that you put under a heavy object in order to lift it.

Example: This man is using a crowbar as a *lever* to lift a piece of wood.



Photo: Man using crowbar to lift a board. November, 2007. Released into public domain by Pearson Scott Foresman.

Pulley

(pul·ley)

Definition: A piece of equipment used for lifting heavy things, consisting of a wheel over which you pull a chain or rope.

Example: *Pulleys* are used on sailing ships to raise and lower the sails.

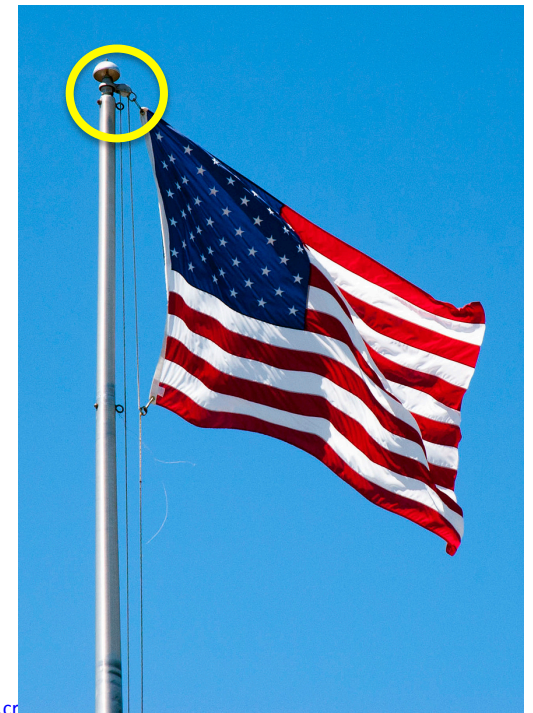
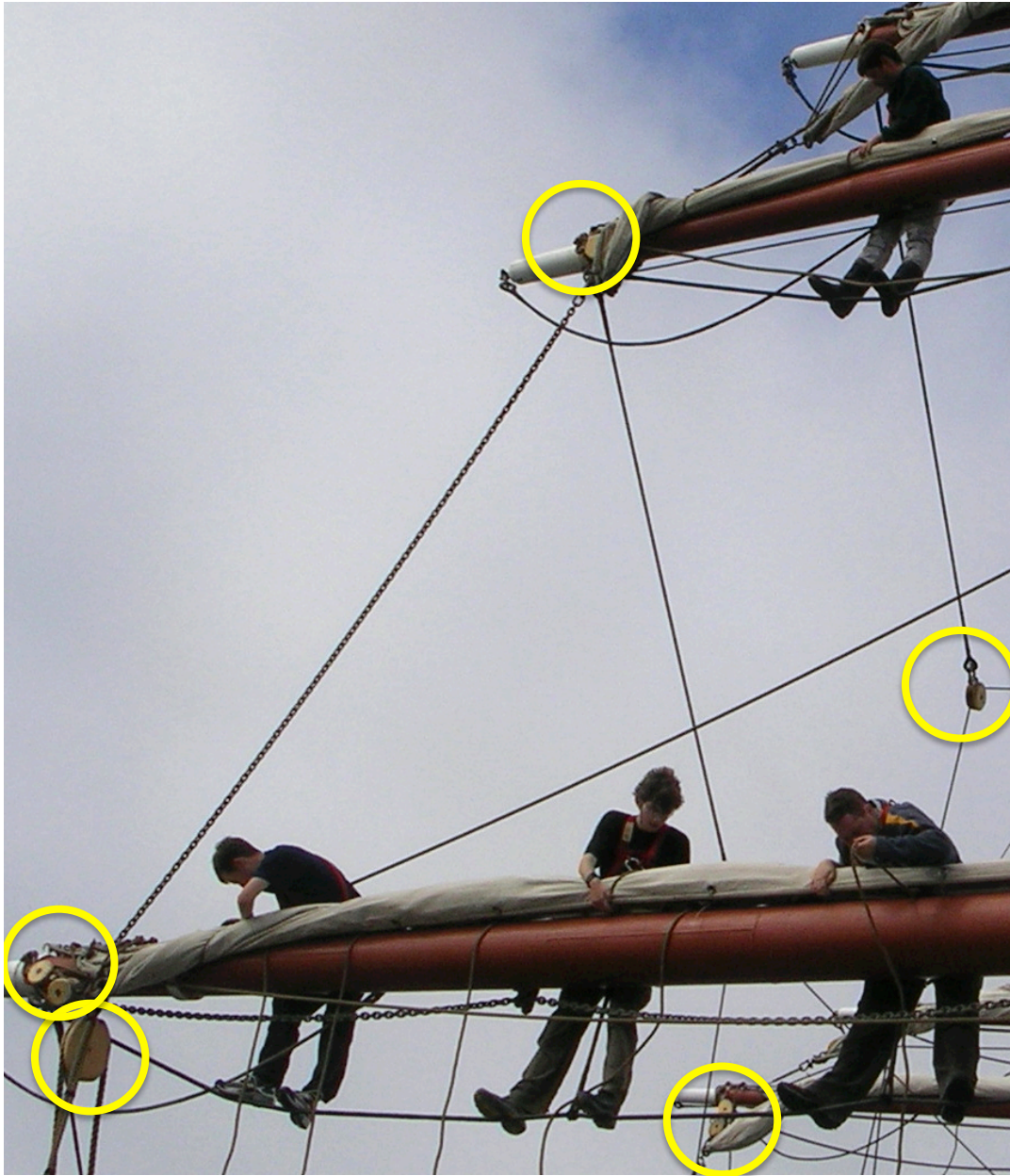


Photo: Crew stowing the fore-course and fore-lower-topsail on the Prince William. August 2005. ©2005 PeteVerdon. Some rights reserved CC-BY-SA-3.0 ([www.creativecommons.org/licenses/by/2.0/](https://creativecommons.org/licenses/by/2.0/))
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Ramp

(ramp)

Definition: A slope that has been built to connect two places that are at different levels

Example: *Ramps* are useful for moving things that cannot be tossed or lifted.

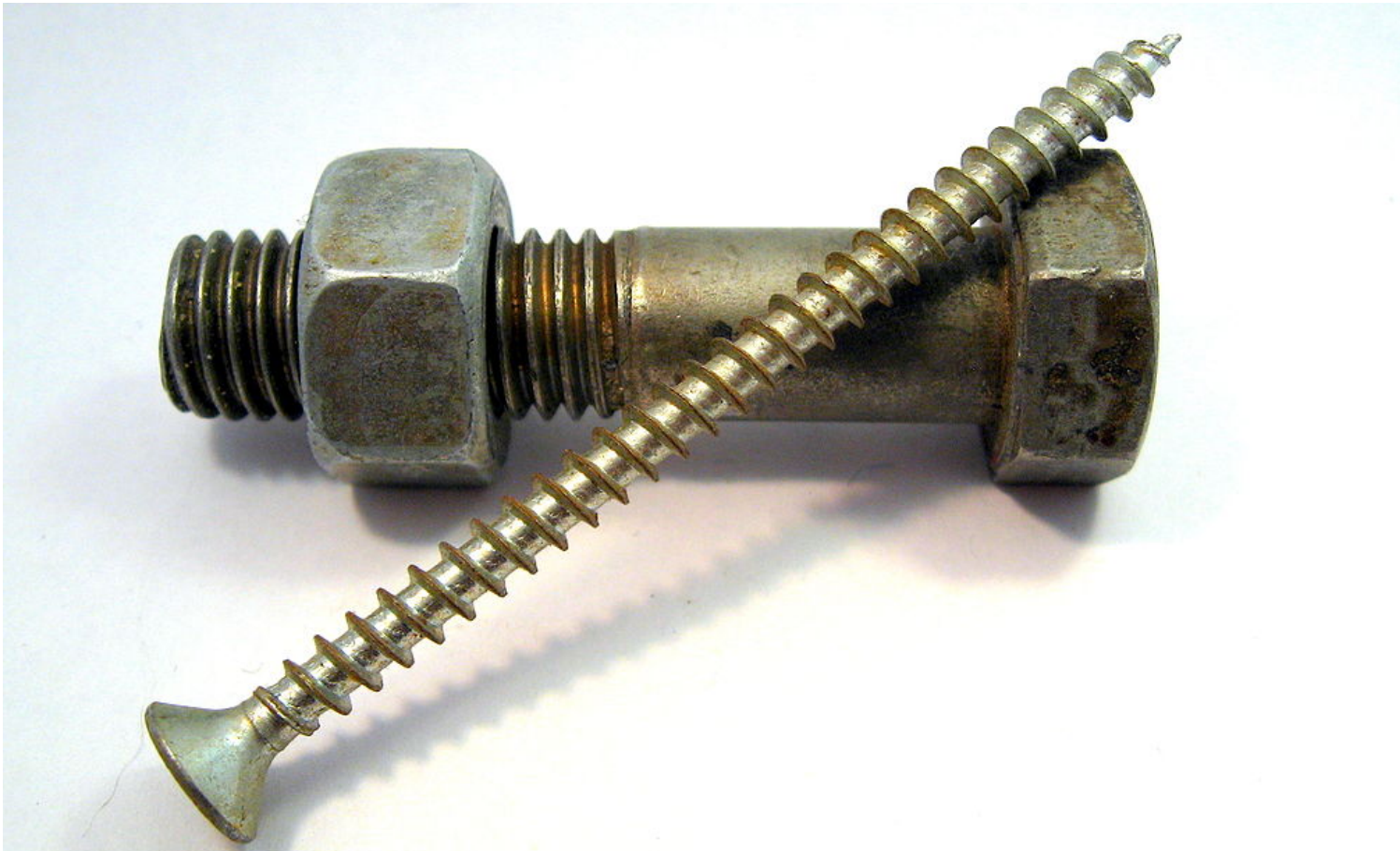


Photo: The U.S. Navy tank landing ship, USS Frederick (LST-1184) dropped its bow ramp, to take on U.S. Marines and equipment. November, 1996 Taken by Navy Photo by Photographer's Mated 3rd Class Laine Altshuler. Released into public domain by the United States Navy.

Ridges (rid·ges)

Definition: a raised part or area on the surface of something

Example: The *ridges* on the side of this screw and bolt is a ramp that goes round and round.



Screw (screw)

Definition: a metal fastener having a tapered shank with a helical thread, and topped with a slotted head, driven into wood or the like by rotating, especially by means of a screwdriver.

Example: *Screws* can be made of different kinds of metal.



Seesaw

(see·saw)





Slanted

(slant·ed)

Definition: To slope or to make something slope in a particular direction.

Example: The Leaning Tower of Pisa is *slanted* because the ground can't hold the weight of the tower.

Wagon

(wag·on)

Wheel and axle



Wedge

(wedge)

A tool that has one thick edge and one thin edge, and is used to cut or slice, or open wider.
Example: The most common *wedge* that we use is the knife.

