



Function Type	Description	Example
Link	Two or more pieces are held together	<p>A wall hook is held in place by a screw.</p> 
Guiding link	One or more pieces allow a part to move in certain way either in translation or in rotation	<p>A desk drawer can only move in translation.</p> 

Lubrication

A substance (oil, grease, wax, etc) reduces friction between two pieces or to surfaces

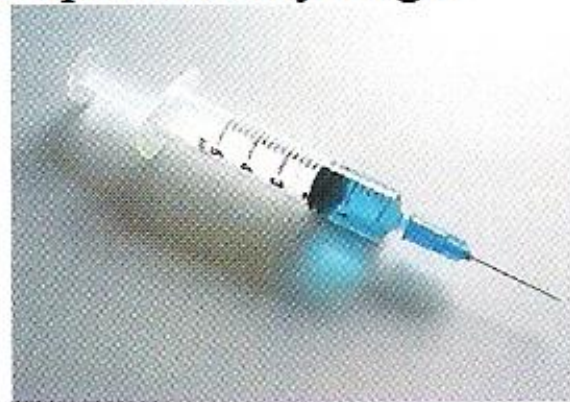
Wax helps skis slide over snow.



Sealing

A body prevents a fluid, a solid, or a gas from escaping from its container. Sealing can be obtained by simple contact of pieces or by using a sealing joint.

The sealing joint allows one to draw up or push out liquid in a syringe.







Support

A piece used to support one or more other pieces

The adjustable stem is used to support the seat of a bicycle.



Linking Functions: Types of links

<p>1 Direct: The parts are designed to fit together without a fastener</p>		<p>Or</p>	<p>Indirect: The parts need a fastener (e.g. nail, screw, glue) to hold them together.</p>	
<p>2 Rigid: The parts are joined together with a rigid fastener with no flexible material between them</p>		<p>Or</p>	<p>Flexible: There is a flexible fastener that allows parts to move in relation to one another</p>	

Linking Functions: Types of links

3 Removable:

The parts can be separated without damaging the fastener or surfaces.



Or

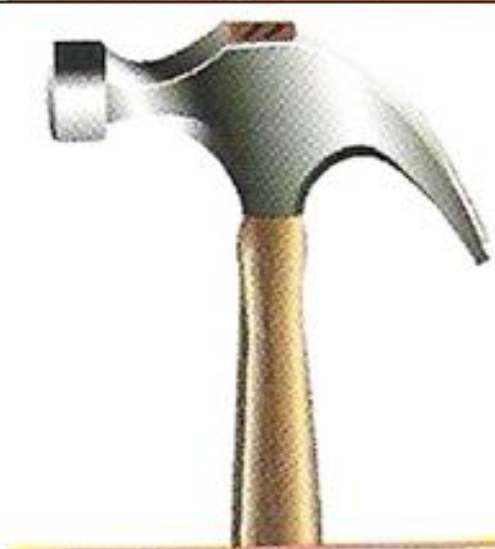
Permanent:

The parts cannot be separated without damaging the fastener or surfaces



4 Complete:

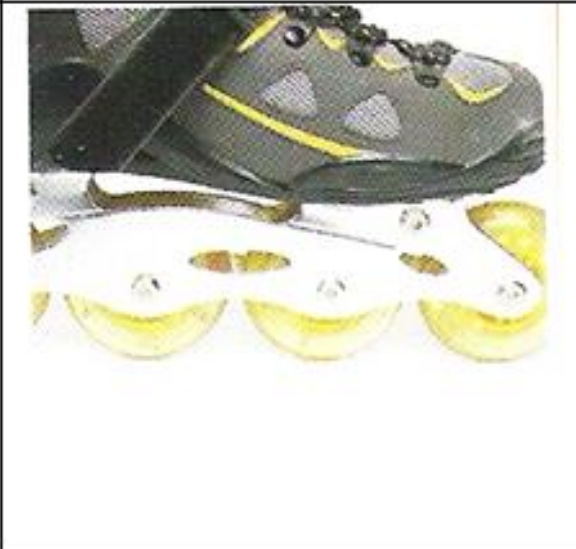
There is no freedom of movement between the parts.






Or

Partial:

The connected parts can move in relation to one another.



Guiding Function: Translational and Rotational Guiding Control

<p>If the guiding control only allows the part to move in a straight line, it is <i>translational</i>.</p>	<p>If the guiding control only allows the part to rotate (fully or partially), it is <i>rotational</i>.</p>	
 <p>The blade is guided by the slides in the handle.</p>	<p>Full Rotation</p>  <p>The pulley is guided by its shaft and shell</p>	<p>Partial Rotation</p>  <p>The upper lever is guided by the rivet and the shape of the parts.</p>