

Basic mechanical functions (links, guides)

STUDENT BOOK pp. 355, 383

1. Match each term on the left with its definition on the right.

Term	Definition
a) Link	This link does not allow any movement between linked parts.
b) Guide	This link can be removed without damaging any of the object's parts.
c) Non-removable link	Anything that connects two or more parts of a technical object.
d) Removable link	This link cannot be removed without damaging the linked parts.
e) Complete link	This link allows at least one part to move in relation to another.
f) Partial link	6. This component controls the motion of moving parts.

2. Fill in the following table for each type of link.

Type of link	Complete or partial	Non-removable or removable
a) A piece of wood screwed in place		
b) A piece of wood nailed in placec) Lid on a pot		

3. Complete the sentences below about guides and the principal types of motion they allow. You can use a type of motion more than once.

	translational motion	rotational motion	helical motion	
		. ,		
a)	A guide that permits the combin	ing of	and	
	produces	For example, a C-o	clamp's adjusting screw allows	
upward and downward movement as it turns.				
b)	A guide that permits the	of par	ts allows them to move in a straigh	
	line. For example, a rail permits the opening of a French window.			
c)	A guide that permits	causes c	omponents of a technical object to	
	turn. For example, the two handles of a pair of pliers rotate about an axis.			