

TYPES OF LINKS

STUDENT BOOK Chapter 12, page 387

GOAL

Determine the types of links in various technical objects.

OBSERVATION CRITERIA

1. What is a basic mechanical function ?

2. Describe the guiding function.

3. Complete the table below. For each type of link:

- indicate the type(s) of motion that the guided part can accomplish
- indicate whether there is one or more than one axis possible for the type of motion evident in the guided part (check the appropriate box)

Type of link	Motion of guided part	Number of axes possible	
		Only one axis	More than one axis
Fixed			
Rotating			
Sliding			
Sliding rotating			
Spherical			
Helical			

MATERIALS

- screwdriver
- hammer
- pliers
- scissors
- beam balance
- computer keyboard
- dimmer switch
- mastic applicator
- eyeglasses
- roll-on deodorant applicator
- C-clamp
- vise



**PROCEDURE**

1. Study each object.
2. Find the links in each of these objects. (An object may involve more than one link.)
3. Complete the table in "Observations" by giving two examples of objects for each type of link listed.

OBSERVATIONS

Record your observations in the table below. Give the table a title.

Title: _____

Type of link	Object 1	Object 2
Fixed		
Rotating		
Sliding		
Sliding rotating		
Spherical		
Helical		

REFLECTING ON YOUR OBSERVATIONS

1. Based on your observations, give an example of an object that uses more than one link. State the types of links involved.

2. Give an example of an object that uses only one type of link.
