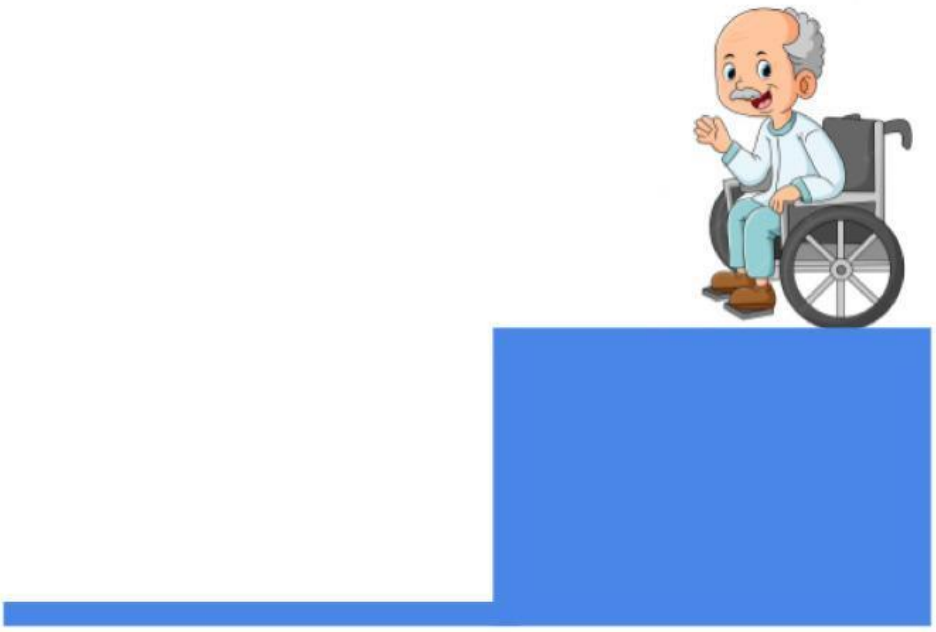
Corporación Colegio San Bonifacio de las Lanzas	GUIA DE TRABAJO O TALLER, EVALUACION	Código: GA PA FR - 003
		Versión: 00
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Title: REINFORCEMENT ACTIVITY	Subject: Science & IT	
Student:	Grade: 3 __	Date:

Criteria	Assessment
Understands the relationship between Simple machines and the corresponding variations in relevant physical magnitudes.	
Comprehends the transmission of motion between simple machines	

You are an architect that needs to design a ramp for a building for people with reduced mobility.
1- What kind of simple machine will you use? Which magnitudes can you use to calculate the ramp and why?

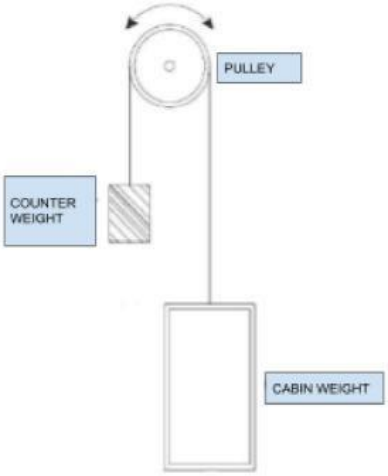


NOTE: Remember that the magnitudes that we known are volume, weight, time, length and temperature.

Elaborado por: Andrés Felipe Melo
Referencias:

LIVEWORKSHEETS

An elevator is basically a pulley in which the weight giving by the cabin is in equilibrium with the weight suspended (COUNTERWEIGHT) at the other side of the pulley just as the picture is showing:



2 - If the elevator is in equilibrium this means that:
a- in both sides of the pulley you have the same weight
b . the distance in one side of the pulley change in order of compensate the weight in the other side of the weight
c - in the counterweight has to be more weight
d- change the pulley because doesn't work

3 - If you want that the cabin start to goes up, you must apply force in:
a - the wheel of the pulley
b - the counterweight
c- the cabin weight
d- neither of the above

4 - If you have more weight in one side of the pulley than the other:
a- it will be impossible to maintain the equilibrium of the pulley
b- the equilibrium will continue because in a pulley the weight does not affect the equilibrium
c- you need to increase the volume of the cabin weight
d - you need to increase the volume of both the cabin weight and the counter weight

5 - **In the weight of the Cabin is 500 kg, what has to be the weight of the counterweight in order to be in equilibrium:**
a - 5000 g
b - 5 mL
c - 500 Kg
d- 500 cm

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