DAY 6 - KPSI: MACHINES

Write "YES" or "NO" in every box to evaluate your knowledge.

	I don't know	I know a little	I could explain it
Can you differentiate machines depending on the type of energy they use?			
Can you explain what a structure is, its parts and uses?			
Can you describe what a lever is, different parts and usage?			
Can you classify the different types of levers?			
Can you describe what an inclined plane is and its usage?			
Can you explain what a pulley is and how it is used?			
Can you explain a relevant invention from the past?			
Can you name the most important inventions nowadays?			

ACTIVITIES 1: MACHINES AND STRUCTURES

 Watch the video "<u>Structures</u>" and tick only the images where you can see structures.



2. Watch the video "Simple and complex machines" and complete the following questions.

2.1.	What is a machine ?					
	Machines are instruments that help us perform a job using					
	effort and doing it					
2.2.	Tick the simple machines .					
	Wheel	Lever	Bicycle	Inclined plane		
	Clock	Tractor	Pulley	Washing machine	<u>:</u>	
2.3.	How does a le	ver work?				
	It helps		like a seesaw.			
2.4.	How does a pu	ulley work?				
	It helps					
2.5.	How does an ${\bf i}$	nclined plane	e work?			
	It is a ramp w	hich joins	ea	ch at different heights	;.	
2.6.	What are complex machines?					
	Complex mach	nines consist o	f	, some of which		
	are	·				
2.7.	Tick the comp	lex machine	s.			
	Wheel	Lever	Bicycle	Inclined plane		
	Clock	Tractor	Pulley	Washing machin	ıe	
2.8.	What type of	energy do the	ese complex ma	achines use?		
		Bicycle •	• Elec	ctrical machine		
	Washing m	nachine •	• The	rmal machine		
		Tractor •	• Mar	nual machine		



3. Complete the diagram by choosing the correct words.

STRUCTURES

SIMPLE MACHINES THERMAL MACHINES

PARTS THEY ARE MADE OF

TYPE OF ENERGY

MANUAL MACHINES

machines

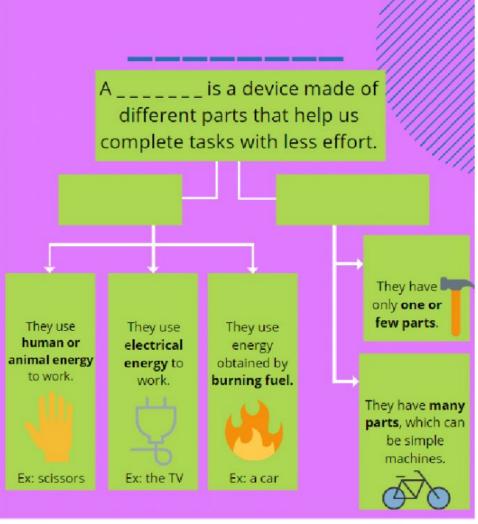
ELECTRICAL MACHINES

MACHINES

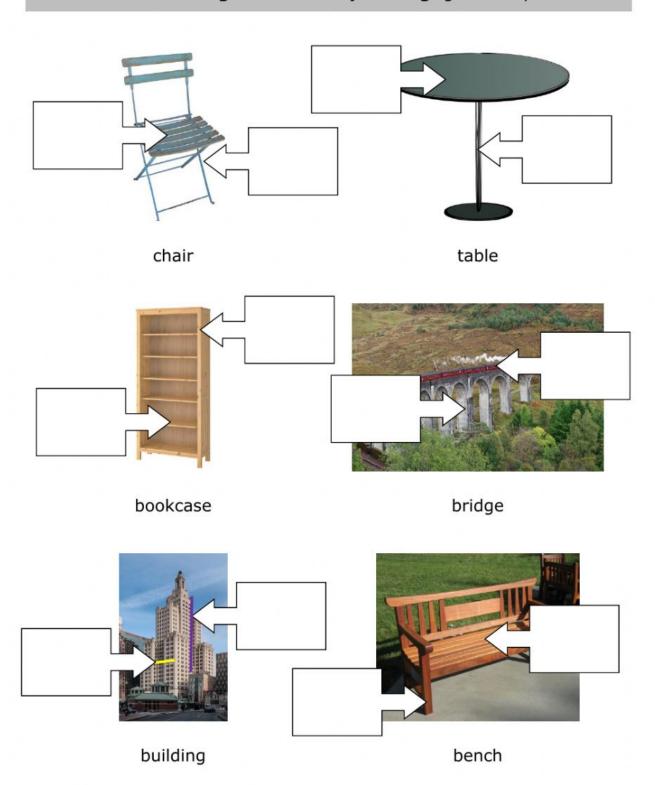
structures

COMPLEX MACHINES





4. Label the following structures by writing: girder or pillar.



5. Classify the following machines as simple or complex.



Wheelbarrow



Crane



Well



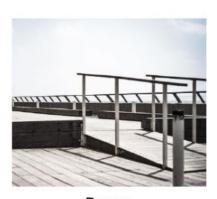
Mower



Seesaw



Clock



Ramp



Mixer



Wheel

6. Classify the following machines depending on the energy

they use: manual machine, electrical machine or thermal machine.

