

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

1. Watch the video "[Structures](#)" and tick only the images where you can see structures.

 <input type="checkbox"/> chair	 <input type="checkbox"/> watch	 <input type="checkbox"/> table
 <input type="checkbox"/> bookcase	 <input type="checkbox"/> building	 <input type="checkbox"/> seesaw
 <input type="checkbox"/> pencil sharpener	 <input type="checkbox"/> helicopter	 <input type="checkbox"/> bridge
 <input type="checkbox"/> car	 <input type="checkbox"/> bench	 <input type="checkbox"/> dishwasher

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

2.3. How does a **lever work?**

It helps _____, like a seesaw.

2.4. How does a **pulley work?**

It helps _____.

2.5. How does an **inclined plane work?**

It is a ramp which joins _____ each at different heights.

2.6. What are **complex machines?**

Complex machines consist of _____, some of which are _____.

2.7. Tick the **complex machines.**

Wheel Lever Bicycle Inclined plane

Clock Tractor Pulley Washing machine

2.8. What **type of energy do these complex machines use?**

Bicycle •

• Electrical machine

Washing machine •

• Thermal machine

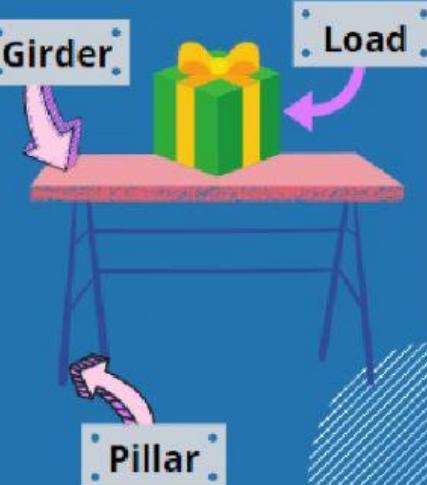
Tractor •

• Manual 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	
MACHINES	structures	COMPLEX MACHINES	ELECTRICAL MACHINES

A _____ is a group of elements that can support weight or load.



A _____ is a device made of different parts that help us complete tasks with less effort.

They use **human or animal energy** to work.



They use **electrical energy** to work.



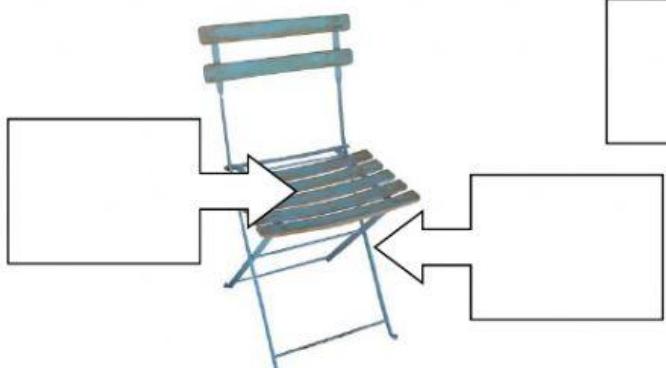
They use **energy obtained by burning fuel**.



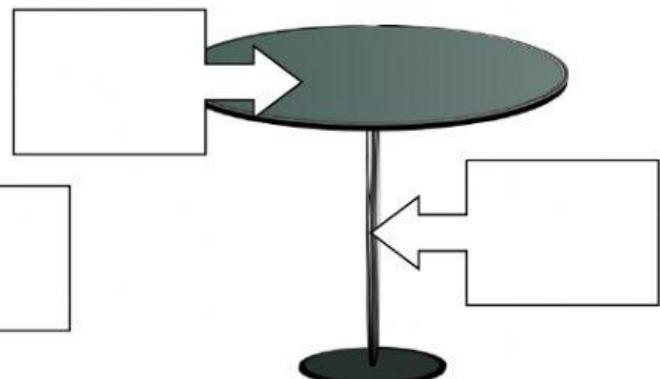
They have **only one or few parts**.



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



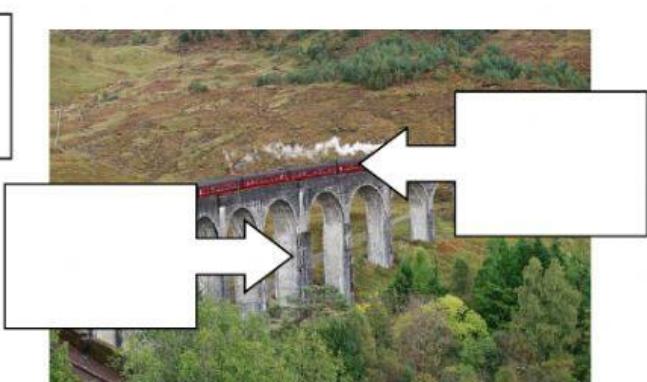
chair



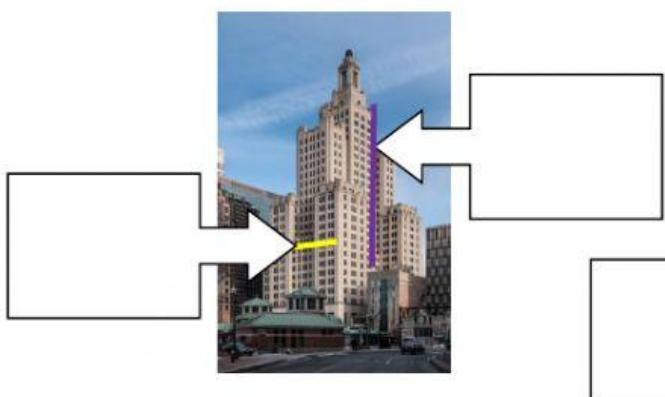
table



bookcase



bridge



building



bench

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.



Scissors



Mixer



Car



Plane



Shovel



Lamp



Laptop



Ship



Hammer
