




DAY 3 – KPSI: MATTER AND FORCES

	 I don't know	 I know a little	 I could explain it
Can you define the term " matter "?			
Can you describe the general properties of matter?			
Can you define the term " force "?			
Can you explain the types of forces ?			
Can you describe how forces can change an object movement ?			
Can you describe how forces affect materials ?			
Can you classify objects depending on how they change when a force is applied to them?			
Can you explain the properties of materials ?			

ACTIVITIES 3: MATERIALS

1. Watch the video "[Material. General properties](#)".

2. Choose the proper term on each definition.

_____ : the property of a material which allows it to **return to its original shape** after is stretched or bent.

_____ : the property of a material which **prevents fluid from passing through it**.

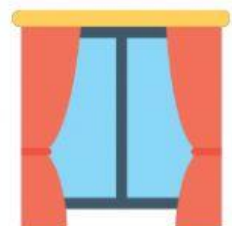
_____ : the property of a material which makes it **difficult to break**.

_____ : the property of a material which **allows light to pass through it**.

_____ : the specific property of a material by which **it conducts electricity or heat**.

3. Match each property of materials with the correct image.

Elasticity	Impermeability	Strength	Transparency	Conductivity
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4. Find the properties of materials in the puzzle, words are hidden horizontally → and vertically ↓.

Elastic	Malleable	Strong	Fragile
Opaque	Transparent	Impermeable	Permeable
Insulator	Conductor	Waterproof	Absorbent

S	Y	I	O	E	L	A	S	T	I	C	I	O	T	I	I	Z	B
K	U	M	J	P	L	G	S	R	M	W	I	P	W	M	X	A	W
B	C	A	O	E	P	V	Z	A	Y	R	N	A	O	P	G	B	A
F	H	L	M	R	T	F	I	N	Z	Z	S	Q	U	E	H	S	T
O	T	L	T	M	G	F	U	S	Q	Q	U	U	H	R	P	O	E
Y	Q	E	S	E	U	R	N	P	R	W	L	E	R	M	U	R	R
S	T	A	T	A	L	A	Y	A	W	Z	A	X	W	E	G	B	P
R	L	B	R	B	P	G	N	R	A	U	T	D	J	A	C	E	R
C	W	L	O	L	L	I	J	E	O	A	O	J	Q	B	K	N	O
U	S	E	N	E	N	L	Z	N	E	O	R	J	O	L	W	T	O
K	M	T	G	J	N	E	E	T	S	K	T	F	F	E	D	W	F
Y	R	V	M	N	O	C	O	N	D	U	C	T	O	R	A	Z	I

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5. Match each property to their definition and image.

Elastic •



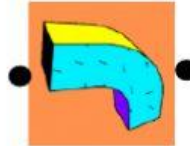
It breaks easily.

Impermeable •



It returns to the original shape after we stretch or bend.

Transparent •



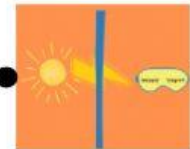
It doesn't transmit heat.

Fragile •



It lets the light pass through it.

Insulator •



Liquids can't pass through it (also called waterproof).

Malleable •



Liquids can pass through it (also called absorbent).

Permeable •



It changes the shape after we stretch or bend it.

Opaque •



It transmits heat.

Strong •



It is difficult to break.

Conductor •

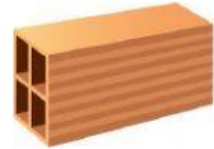


It doesn't let the light pass through it.

6. Complete the sentences about properties of materials.

Elastic	Strong	Transparent	Impermeable	Insulator
Malleable	Fragile	Opaque	Permeable	Conductor

a) A **brick** is _____ because it doesn't break easily.



b) An **umbrella** is _____ because liquids cannot pass through it.

c) A **spring** is _____ because it returns to its original shape after we stretch or bend.



d) A **glass** is _____ because it lets the light pass through it.

e) A **sponge** is _____ because liquids can pass through it easily.

f) A **pencil** is _____ because it breaks easily.

g) **Copper** is _____ because it transmit electricity.



h) **Plasticine** is _____ because it changes its shape after we stretch or bend.

i) A **book** is _____ because doesn't let the light pass through it.

j) A **wooden spoon** is _____ because it doesn't transmit heat.

7. Choose the materials in the box that each sentence is describing the definitions and identify the properties.

polyester

plastic and wood

steel

cotton, wool and leather

asphalt

7.1. It is hard and strong and we use it **for making machines and tools:** _____

7.2. They are natural materials and we use them **for making clothes and shoes:** _____

7.3. It is impermeable and we use it **for making roads:**

7.4. We use them for making tools that **protect us from heat and electricity:** _____

7.5. It is an artificial material and we use it **for making clothes:**

8. Complete the text with the correct materials.

tiles

concrete

glass

If we want to build a house, we must use _____, because it is very hard and strong. For the windows, we use a transparent material like _____. For the walls and roof of the house we use impermeable materials like bricks and _____.