




## DAY 3 – KPSI: MATTER AND FORCES

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

# 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 |
|------------|----------------|----------|--------------|--------------|





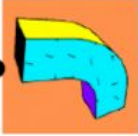




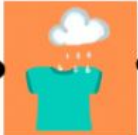


**4. Find the properties of materials in the puzzle, words are hidden horizontally → and vertically ↓.**

|           |             |             |           |
|-----------|-------------|-------------|-----------|
| 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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Super Teachers Worksheets  
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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 \_\_\_\_\_.