1. Write the materials.

<table>
<thead>
<tr>
<th>glass</th>
<th>stone</th>
<th>brick</th>
<th>plastic</th>
<th>cotton</th>
<th>wool</th>
</tr>
</thead>
</table>

2. Classify the words from activity 1.

<table>
<thead>
<tr>
<th>NATURAL MATERIALS</th>
<th>MAN-MADE MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>glass</td>
<td>stone</td>
</tr>
<tr>
<td>brick</td>
<td>plastic</td>
</tr>
<tr>
<td>cotton</td>
<td>wool</td>
</tr>
</tbody>
</table>

3. Write sentences about the materials using *natural* or *man-made*.

Cotton is a natural material.

Brick is a ___________________________ material.

Stone _________________________________.

_________________________________________________________________

_________________________________________________________________

_________________________________________________________________
4. Find the odd one out in each group.

**NATURAL MATERIALS**
- wool
- wood
- cotton
- trees
- cotton flowers
- sheep

**MAN-MADE MATERIALS**

5. Complete the sentences.

<table>
<thead>
<tr>
<th>wool</th>
<th>wood</th>
<th>cotton</th>
<th>trees</th>
<th>cotton flowers</th>
<th>sheep</th>
</tr>
</thead>
</table>

- _______________ comes from ________________________.
- _______________ comes from ________________________.
- _______________ comes from ________________________.
- _______________ comes from ________________________.

6. Complete the sentences using these words.

<table>
<thead>
<tr>
<th>animals</th>
<th>humans</th>
<th>plants</th>
<th>ground</th>
</tr>
</thead>
</table>

Natural materials come from ____________, ____________ or the ____________________.

Man-made materials are made by ____________________.
1. Write the materials.

<table>
<thead>
<tr>
<th>glass</th>
<th>stone</th>
<th>brick</th>
<th>plastic</th>
<th>cotton</th>
<th>wool</th>
</tr>
</thead>
</table>

2. Classify the words from activity 1.

<table>
<thead>
<tr>
<th>NATURAL MATERIALS</th>
<th>MAN-MADE MATERIALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>cotton</td>
<td>brick</td>
</tr>
<tr>
<td>stone</td>
<td>plastic</td>
</tr>
<tr>
<td>wool</td>
<td>glass</td>
</tr>
</tbody>
</table>

3. Write sentences about the materials in activity 1 using *natural* or *man-made*.

Cotton is a natural material.

Brick is a man-made material.

Stone is a natural material.

Wool is a natural material.

Plastic is a man-made material.

Glass is a man-made material.
4. Find the odd one out in each group.

**NATURAL MATERIALS**
- Sheep
- Cotton
- Trees

**MAN-MADE MATERIALS**
- Glass
- Stone

5. Complete the sentences.

<table>
<thead>
<tr>
<th>wool</th>
<th>wood</th>
<th>cotton</th>
<th>trees</th>
<th>cotton flowers</th>
<th>sheep</th>
</tr>
</thead>
</table>

Wool comes from sheep.

Wood comes from trees.

Cotton comes from cotton flowers.

6. Complete the sentences using these words.

<table>
<thead>
<tr>
<th>animals</th>
<th>humans</th>
<th>plants</th>
<th>ground</th>
</tr>
</thead>
</table>

Natural materials come from plants, animals or the ground.

Man-made materials are made by humans.
1. Circle the correct word.

- transparent / opaque
- rigid / flexible
- hard / soft

2. Write the properties of these materials.

<table>
<thead>
<tr>
<th>hard</th>
<th>magnetic</th>
<th>soft</th>
<th>flexible</th>
<th>transparent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Match and copy.

- Glass is magnetic.
- Fabric is hard.
- Metal is transparent.
- Stone is flexible.
- Rubber is soft.
4. Complete the sentences using *floats* or *sinks*.

Plastic _______________.
Wood _______________.
Metal _______________.
Stone _______________.

5. Circle the waterproof materials.

- wood
- cotton
- stone
- plastic
- metal
- paper
- glass
- wool
- brick

6. Draw the objects that the magnet attracts inside it.
1. Circle the correct word.

- transparent / opaque
- rigid / flexible
- hard / soft

2. Write the properties of these materials.

<table>
<thead>
<tr>
<th></th>
<th>hard</th>
<th>magnetic</th>
<th>soft</th>
<th>flexible</th>
<th>transparent</th>
</tr>
</thead>
<tbody>
<tr>
<td>transparent</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>soft</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>flexible</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>magnetic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>hard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3. Match and copy.

Glass is magnetic.
Fabric is hard.
Metal is transparent.
Stone is flexible.
Rubber is soft.

Metal is magnetic.
Stone is hard.
Glass is transparent.
Rubber is flexible.
Fabric is soft.
4. Complete the sentences using floats or sinks.

Plastic ______ floats ______.
Wood ______ floats ______.
Metal ______ sinks ______.
Stone ______ sinks ______.

5. Circle the waterproof materials.

- wood
- metal
- plastic
- cotton
- glass
- wool
- stone
- paper
- brick

6. Draw the objects that the magnet attracts inside it.
1. Write **mass** or **volume**.

   ___________ is the space matter occupies.

   ___________ is how heavy matter is.

2. Complete the sentences.

   apple  balloon

   The ___________ has more volume than the ___________.

   The ___________ has more mass than the ___________.

3. Read and colour.

   The box with the bigger volume.  The box with the bigger mass.  The animal with the smaller mass.
4. Write the names of these mixtures.

| salad | chocolate milk | pizza | lemonade |

5. Match.

6. Complete using *can* or *can’t*.

In a homogeneous mixture we ________see the substances separately.

In a heterogeneous mixture we ________see the substances separately.
Matter and materials

Worksheet 5.3
Mass and volume

1. Write **mass** or **volume**.

   __Volume_____ is the space matter occupies.

   __Mass_____ is how heavy matter is.

2. Complete the sentences.

   apple          balloon

   The _______balloon_______ has more volume than the _______apple_______.

   The _______apple_______ has more mass than the _______balloon_______.

3. Read and colour.

   The box with the bigger volume.

   The box with the bigger mass.

   The animal with the smaller mass.
4. Write the names of these mixtures.

| salad | chocolate milk | pizza | lemonade |

5. Match.

Homogeneous mixture | Heterogeneous mixture

6. Complete using **can** or **can’t**.

In a homogeneous mixture we **can’t** see the substances separately.

In a heterogeneous mixture we **can** see the substances separately.
1. Write *bending, heating* or *cooling*.

2. Circle.

   green = bending  blue = cooling  red = heating

3. Write *solid, liquid* or *gas*.

   ![Diagram](image)
4. Match the pictures where water is in the same state.

5. Write the state of water in each picture.


<table>
<thead>
<tr>
<th>SOLID</th>
<th>LIQUID</th>
<th>GAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>lemonade</td>
<td>spoon</td>
<td>cloud</td>
</tr>
<tr>
<td>stone</td>
<td>milk</td>
<td>vapour</td>
</tr>
</tbody>
</table>
1. Write **bending, heating or cooling**.

   - **cooling**
   - **bending**
   - **heating**

2. Circle.

   - **green = bending**
   - **blue = cooling**
   - **red = heating**

3. Write **solid, liquid** or **gas**.

   - **liquid**
   - **gas**
   - **solid**
4. Match the pictures where water is in the same state.

5. Write **solid**, **liquid** or **gas**.


<table>
<thead>
<tr>
<th>SOLID</th>
<th>LIQUID</th>
<th>GAS</th>
</tr>
</thead>
<tbody>
<tr>
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<td>cloud</td>
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<tr>
<td>spoon</td>
<td>milk</td>
<td>vapour</td>
</tr>
</tbody>
</table>
Matter and materials

Worksheet 5.5

Uses of materials

1. Write.

2. Write what they are made of.

3. Rewrite these sentences using words.
4. Write.

<table>
<thead>
<tr>
<th>fork</th>
<th>sweater</th>
<th>rain boots</th>
<th>glasses</th>
</tr>
</thead>
</table>

5. Match.

<table>
<thead>
<tr>
<th>glass</th>
<th>wool</th>
<th>metal</th>
<th>plastic</th>
</tr>
</thead>
</table>

6. Complete the chart.

<table>
<thead>
<tr>
<th>glass</th>
<th>wool</th>
<th>plastic</th>
<th>transparent</th>
</tr>
</thead>
<tbody>
<tr>
<td>soft</td>
<td>waterproof</td>
<td>metal</td>
<td>hard</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>rain boots</td>
<td></td>
</tr>
<tr>
<td>sweater</td>
<td></td>
</tr>
<tr>
<td>glasses</td>
<td></td>
</tr>
<tr>
<td>fork</td>
<td></td>
</tr>
</tbody>
</table>
1. Write.

```
| window | wall | door | chimney |
```

```
wall
```

```
door
```

```
chimney
```

```
window
```

2. Write what they are made of.

- The window is made of glass.
- The door is made of wood.
- The wall is made of brick.

3. Rewrite these sentences using words.

- The window is made of glass because glass is transparent.
- The wall is made of brick because brick is hard.
4. Write.

<table>
<thead>
<tr>
<th>fork</th>
<th>sweater</th>
<th>rain boots</th>
<th>glasses</th>
</tr>
</thead>
</table>

5. Match.

6. Complete the chart.

<table>
<thead>
<tr>
<th>glass</th>
<th>wool</th>
<th>plastic</th>
<th>transparent</th>
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<tr>
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<td>glass</td>
</tr>
<tr>
<td>fork</td>
<td>metal</td>
</tr>
</tbody>
</table>