









## Solids, Liquids and how they can be separated

**Sorting things, Measuring volumes, Flowing solids, Freezing and melting, Investigating melting, Melting and freezing points, Mixtures of solids, Mixtures of Solids and Liquids, Separating solids from liquids**

**Q: Sort out the solids, liquids and gases:**

				
<b>Pulses</b>	<b>Coffee</b>	<b>Balls</b>	<b>Clouds</b>	<b>Honey</b>
				
	<b>Helium</b>	<b>Steam</b>	<b>Sponge</b>	
<b>Solids</b>	<b>Liquids</b>		<b>Gases</b>	

**Q: From the above images write down the properties of solids, liquids and gases.**

Properties of solids	Properties of Liquids	Properties of Gases
<b>Name:</b>	<b>Name:</b>	<b>Name:</b>

**Q. Answer the following questions:**

1. Volume of a liquid is measured in \_\_\_\_\_.
2. To measure the volume of a liquid we use \_\_\_\_\_.
3. Liquids can be poured but so can some \_\_\_\_\_.
4. Flowing solids have some properties similar to \_\_\_\_\_.

5. The temperature at which water solidifies into ice is \_\_\_\_\_°C.
6. Instrument used to measure the temperature is called a \_\_\_\_\_.
7. The freezing and melting points of a material are \_\_\_\_\_.
8. Below 0°C all the water will \_\_\_\_\_ and above 0°C all the ice will \_\_\_\_\_.

**Q. Which of the following materials will melt the fastest, and which material will be the last to melt? Give reasons.**

**Gold, Ice, Butter, Candle wax, chocolate.**

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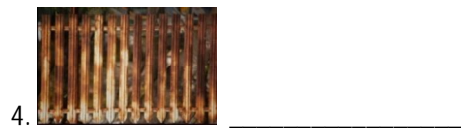
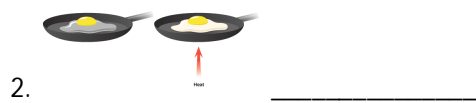


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**Q. Find out reversible and irreversible changes:**



**Q. Out of the five ingredients, which One solid will be completely dissolved in water? Circle it.**

Flour, Sand, Sugar, Tea leaves, black pepper.

**Q. Separate the following mixtures by using a Sieve, a Filter paper, a Magnet or a Colander.**

1. Flour and water \_\_\_\_\_

2. Noodles in water \_\_\_\_\_

3. Cornflakes and milk \_\_\_\_\_

4. Peas and cauliflower \_\_\_\_\_

5. Paper clips, dry rice and salt \_\_\_\_\_, \_\_\_\_\_

**Q. Which of the following is NOT a mixture of solids:**

1. Sand and marbles.

2. Kidney beans and paper.

3. Sugar and salt.

4. Coffee and milk

**Q. Define the following terms:**

Sieving:

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Filtering:

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Filtrate:

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Dissolving:

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Solvent:

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Viscosity:

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Decanting:

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**Q. Which is better for filtering the following materials?**

**1. Separating water and chick peas:**

- i. Sieve            ii. Filter paper

**2. Separating nuts and salt:**

- i. Colander        ii. Sieve

**3. Separating sand and water:**

- i. Mini- Sieve    ii. Kitchen towel

**Q. Write at least 3 physical properties of the following mixtures:**

Mixture	Physical Properties
<b>Coffee in water</b>	1. _____ 2. _____ 3. _____
<b>Sugar in water</b>	1. _____ 2. _____ 3. _____
<b>Tea in water</b>	1. _____ 2. _____ 3. _____