

## Worksheet Number (1)

Grade & Section: 6<sup>th</sup> ( )

Unit: 3

Student's Name: \_\_\_\_\_

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Skill/Lesson: Classifying matter

### Educational Outcomes:

1. Define physical properties.
2. Classify and describe matter according to their physical properties.
3. Identify: Texture, mass, elasticity, odor, melting point, hardness and magnetism of matter.

### Activity 1: Hardness

#### Hardness is how hard or soft something is

Watch the following video then answer the following question

<https://www.youtube.com/watch?v=xZUGWzRpA-4>

Mineral Name	Hardness
Talc	1
Gypsum	2
Calcite	3
Fluorite	4
Apatite	5
Feldspar	6
Quartz	7
Topaz	8
Corundum	9
Diamond	10

Common Object	Hardness
Fingernail	2.5
Copper Penny	3
Iron Nail	4.5
Glass	5.5
Streak Plate	7

Q1. What is the hardest material in the previous table?

Q2. What is the hardness of Iron nail?

Q3. Name two minerals on the Mohs scale that can scratch Topaz.

Q4. Which mineral is harder, Topaz or Quartz?

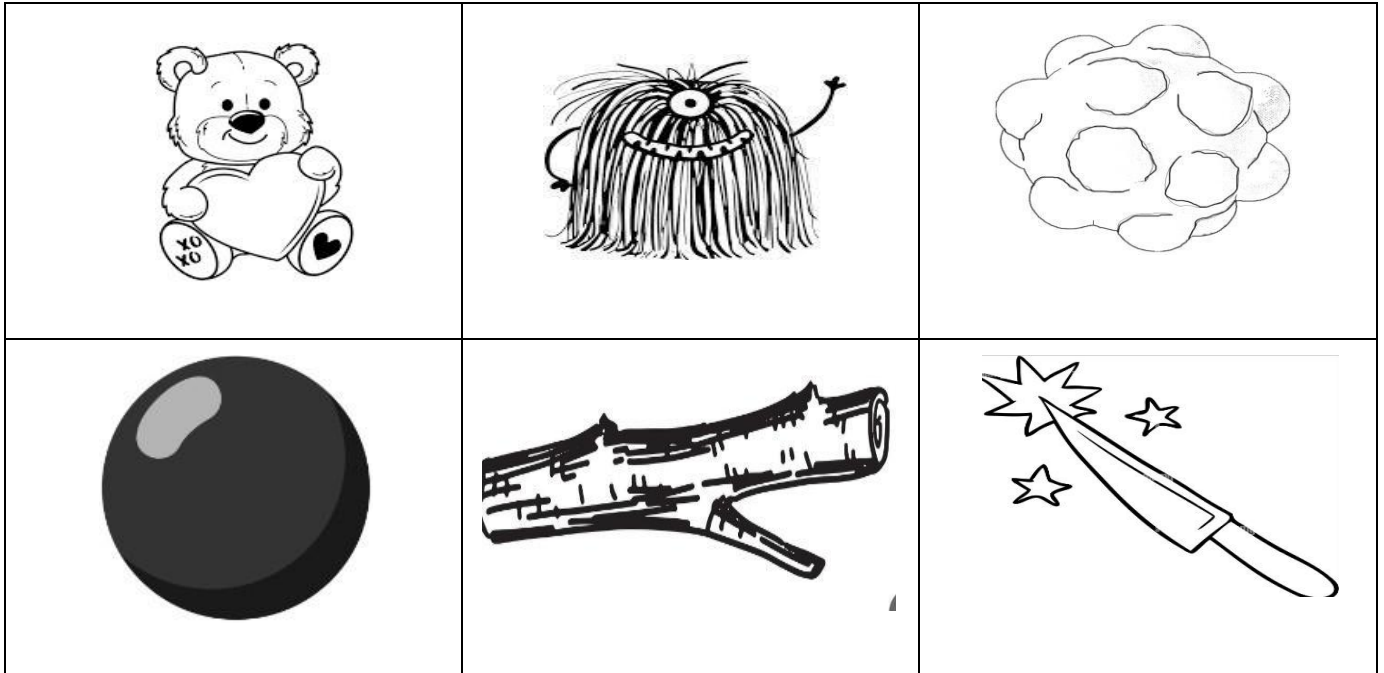
## Activity 2: Texture

**Texture is the feel or the appearance of the surface.**

Words used to describe texture: (smooth, soft, hard, shiny or dull).

**Question 1: Describe the texture of the following objects, use the words from the list**




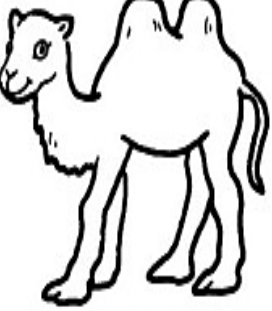
**Hairy – smooth – sharp – bumpy – rough – fuzzy - soft**



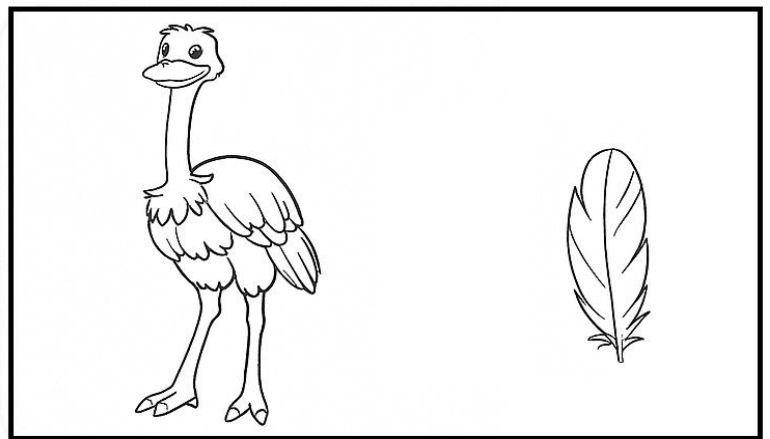
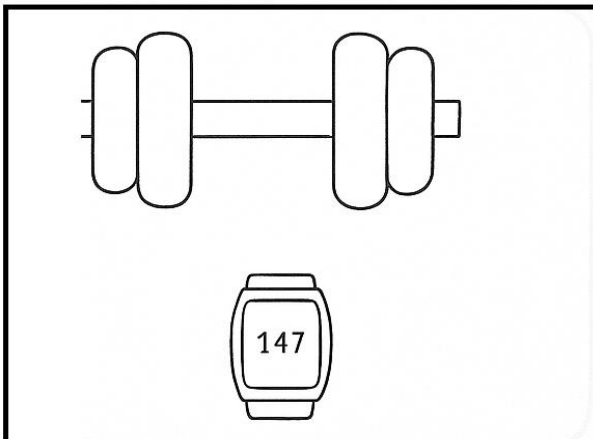
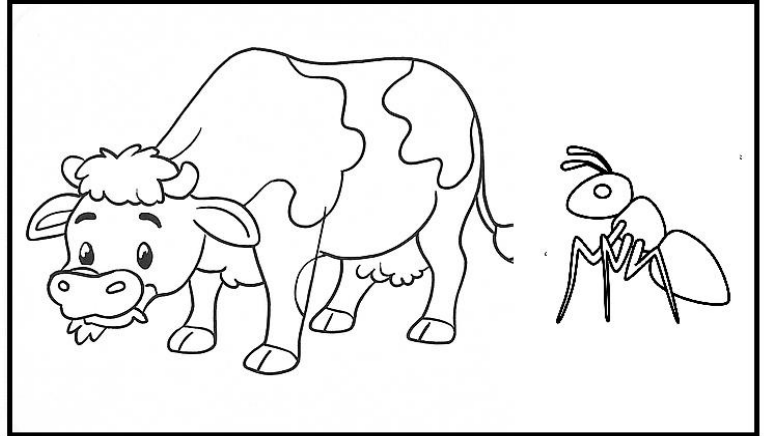
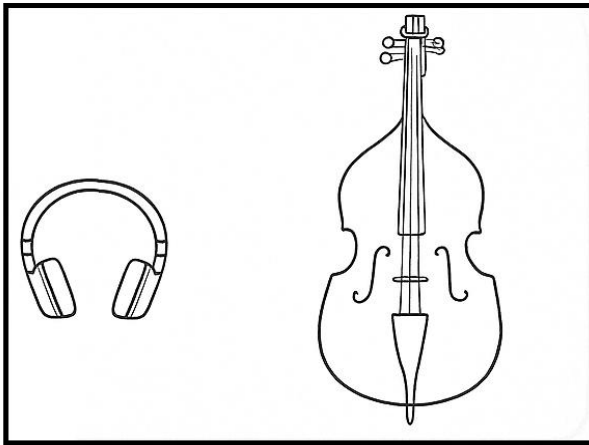
## Activity 3: Mass

**Mass: is how heavy something is**

**Question 1: Choose the best estimate for each object or animal shown.**

- |   |   |  |   |
|---|---|--|---|
| 1.  | 2.  | 3.   | 4.  |
|  |  |  |  |
| 18 grams<br>4 kilograms<br>8 kilograms  | 20 grams<br>500 grams<br>18 kilograms   | 570 grams<br>7 kilograms<br>37 kilograms   | 600 kilograms<br>60,000 kilograms<br>6,000 grams                                      |

**Question 2: Classify the following into heavy or light.**



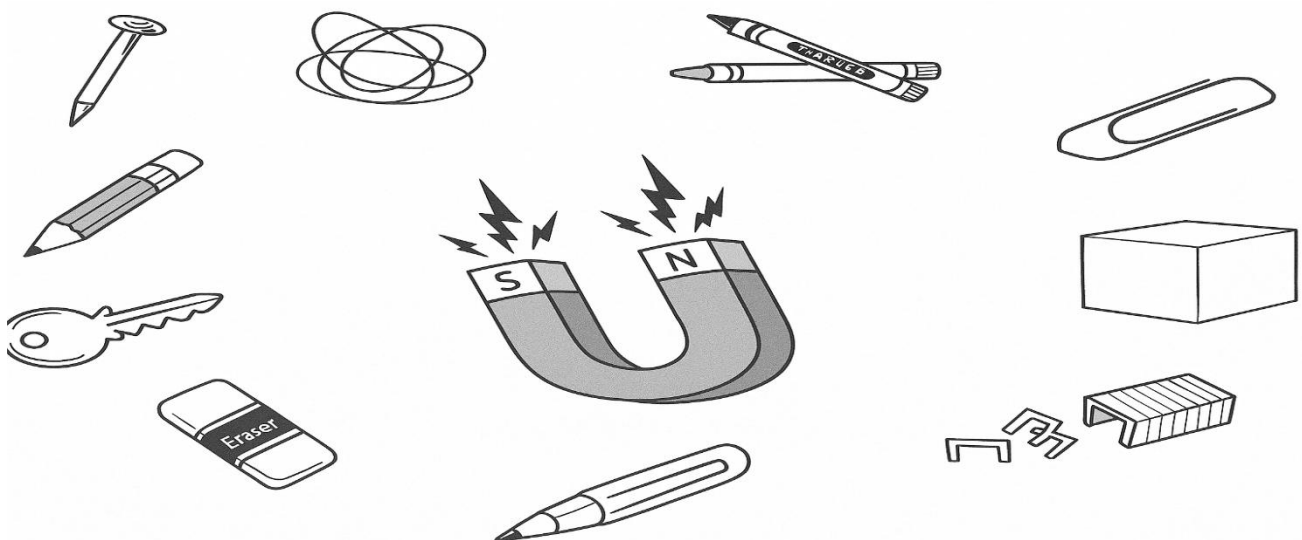
#### **Activity 4: Magnetism**

**Magnetism is the ability to be attracted to magnet**

**Watch the following video then answer the following**

<https://www.youtube.com/watch?v=yXCeuSiTOug>

**Question 1 : Draw a line from the magnet to the things it will attract.**



### Activity 5: Elasticity

**Elasticity is how much will stretch or bend before breaking**

**Question 1: identify the following as elastic or inelastic**

**Rubber band - wooden stick – trampoline - Spring metal – glass cup**

Elastic	inelastic

### **Activity 6: Melting point: is the temperature at which something melts**

**Q1: look at the next table and answer the following**

Substance	Melting point
Ice / Water	0° C
Iron	1535° C
Gold	1063° C
Mercury	-39° C

Q1: What is the melting point of Iron?

Q2: What is the melting point of Ice?

Q3: which material has the lowest melting point?

### **Activity 7: Odour**

**Odour is the smell of something**

**Question 1 : describe the odour of the following**

**Sweet – rotten – sharp**

