

# 3<sup>rd</sup> Term Worksheet [2018 – 19]

Subject – Science

Class – V

Name :

Sec. :

Chapter – 10  
[Light and Shadows]

**Keywords:**

[109]

Light : \_\_\_\_\_

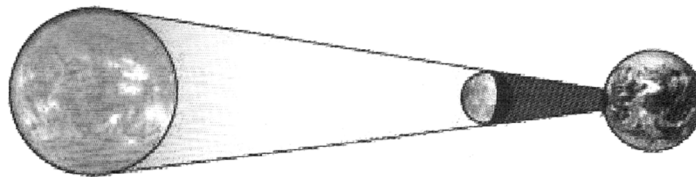
Lunar eclipse: \_\_\_\_\_

Solar eclipse: \_\_\_\_\_

**Exercise:**

[110-112]

1. This is a diagram showing an eclipse. Label the sun, earth and moon on it. Is it a solar or a lunar eclipse? [110]



2. Multiple Choice Questions: [110]

- (i) Which of these is not a source of light?
- (a) Sun (b) Moon
- (c) Lighted candle (d) Stars
- (ii) You will be able to see most clearly through something that:
- (a) Allows all light to pass through it
- (b) Reflects all light falling on it
- (c) Absorbs all light falling on it
- (d) Allows half the light to pass through and reflects the other half
- (iii) Tracing paper is
- (a) Transparent (b) Opaque
- (c) Translucent (d) None of these
- (iv) A lunar eclipse occurs when the
- (a) Earth is between the sun and the moon
- (b) Moon is between the sun and the earth
- (c) Sun is between the earth and the moon.
- (d) In all the above situations

3. Put √ for true, and × for false: [111]

- i) Shadows are formed because light travels in straight lines. \_\_\_\_\_
- ii) You cannot see objects that do not give off their own light. \_\_\_\_\_
- iii) We depend on light energy for our food. \_\_\_\_\_
- iv) Stars are not source of light.
- v) A solar eclipse occurs when the shadow of the sun falls on the moon. \_\_\_\_\_
- vi) Most objects around us are sources of light.

4. Match the columns:

Column A		Column B	
i)	Shadow	(a)	Artificial source of light
ii)	Candle	(b)	Natural source of light
iii)	Transparent	(c)	Caused by shadow of earth or moon
iv)	Eclipse	(d)	Path of light blocked
v)	Glow worm	(e)	Can see clearly through it

5. What is a source of light? Give two examples each of natural and artificial sources of light.

Ans. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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6. How are shadows formed?

Ans. \_\_\_\_\_

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\_\_\_\_\_

7. What happens to light when it falls on any object?

Ans. \_\_\_\_\_

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\_\_\_\_\_

8. Distinguish between transparent and translucent objects. Give two examples of each.

Ans. \_\_\_\_\_

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\_\_\_\_\_

9. You are standing in a field on a dark night. Why can you not see your shadow?

Ans.

[illegible]

10. On what days do the following occur? Why?

- a. Lunar eclipse                      b. Solar eclipse

Ans.

[illegible]

### Thinking Questions:

**[112]**

1. A scientist made a sheet of glass that passed all the light through it. It did not reflect or absorb any light.

- Can the sheet of glass be seen? Why?
- Can the sheet of glass cast a shadow? Why?
- Which natural thing present all around you has this property?

Ans.

[illegible]

2. Asra put a coloured toy between a torch and a wall in a dark room. She expected a coloured shadow of the toy on the wall. But the shadow was black. Why?

Ans. \_\_\_\_\_

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### **Chapter – 11** **[Simple Machines]**

**Keywords:**

**[120]**

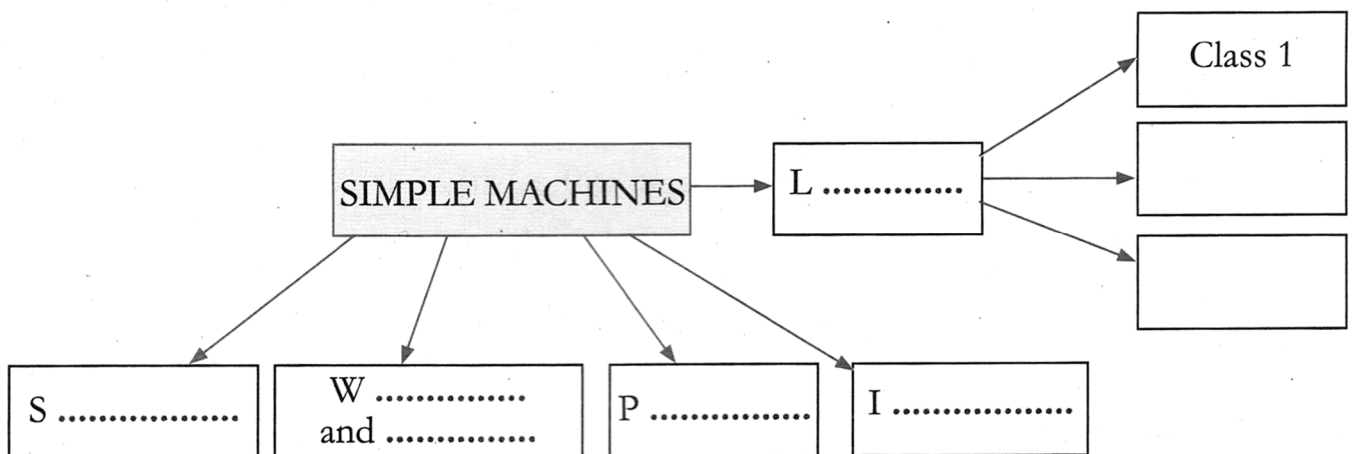
**Complex:**

**Exercise:**

**[121-123]**

1. Fill in the blank boxes in the mind map of simple machines:

**[121]**



2. Multiple Choice Questions:

**[121]**

- (i) Which of these is a simple machine?
 

(a) Car	(b) Bicycle
(c) Sewing machine	(d) Screw
- (ii) Which of these shows a lever of class 1?
 

(a) F – E – L	(b) E – F – L
(c) E – L – F	(d) All of these
- (iii) Which of these simple machines does not increase or decrease force?
 

(a) Lever of class 2	(b) Single fixed pulley
(c) Inclined plane	(d) Wheel and axle
- (iv) Which of these is true for a winding road going up a hill?
 

(a) It is a simple machine and works like a lever
(b) It is a simple machine and works like an inclined plane
(c) It is a simple machine and works like a wheel and axle
(d) It is not a simple machine
- (v) A screw is very similar in function to a:
 

(a) Lever	(b) Pulley
(c) Inclined plane	(d) Wheel and axle

(vi) Which of these machine decreases force?

- (a) Lever of class 3                      (b) Single fixed pulley  
(c) Screw                                  (d) Wheel and axle

3. Match the columns: [122]

**Column A**

**Column B**

- |    |                  |      |   |
|----|------------------|------|---|
| a) | Lever of class 1 | i.   | Uses a wheel and rope to pull a bucket of water from a well |
| b) | Lever of class 2 | ii.  | Taking a patient on a wheel chair up a ramp in a hospital   |
| c) | Lever of class 3 | iii. | Cutting paper with a pair of scissors                       |
| d) | Inclined plane   | iv.  | Opening a cold drink bottle with a bottle opener            |
| e) | Pulley           | v.   | Picking up diamonds using tweezers                          |
| f) | Screw            | vi   | Using a screw jack to lift a car                            |

4. What is a machine?

Ans. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

5. What is the difference between a simple and a complex machine?

Ans. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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\_\_\_\_\_

6. Roads on hills are made to have very gentle slopes. Why?

Ans. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7. List two ways in which a screw is more useful than a nail.

[illegible]

8. Draw diagrams to show the three classes of lever. Mark the position of the fulcrum, load and effort in each. Which of these always reduced force?

Ans.

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9. A single fixed pulley does not increase or decrease force. How then is it useful as a simple machine?

Ans.

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10. A lever of class 1 can reduce or increase force. How?

Ans.

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### Thinking Questions:

**[123]**

1. With the help of a screw jack even a small child can raise a heavy car. What makes this possible?

[illegible]

2. Archimedes, the ancient Greek inventor, once said, "Give me a lever long enough, and I can move the earth. "Do you think this can be done?

[illegible]

3. A wheel is not a simple machine because in itself it cannot decrease or increase force or change its direction. What is done to make it into a simple machine?

[illegible]

**Chapter – 12**  
**[Cleanliness, Health and Hygiene]**

**Keywords:**

[130]

Biodegradable waste: \_\_\_\_\_

\_\_\_\_\_

Non-biodegradable waste: \_\_\_\_\_

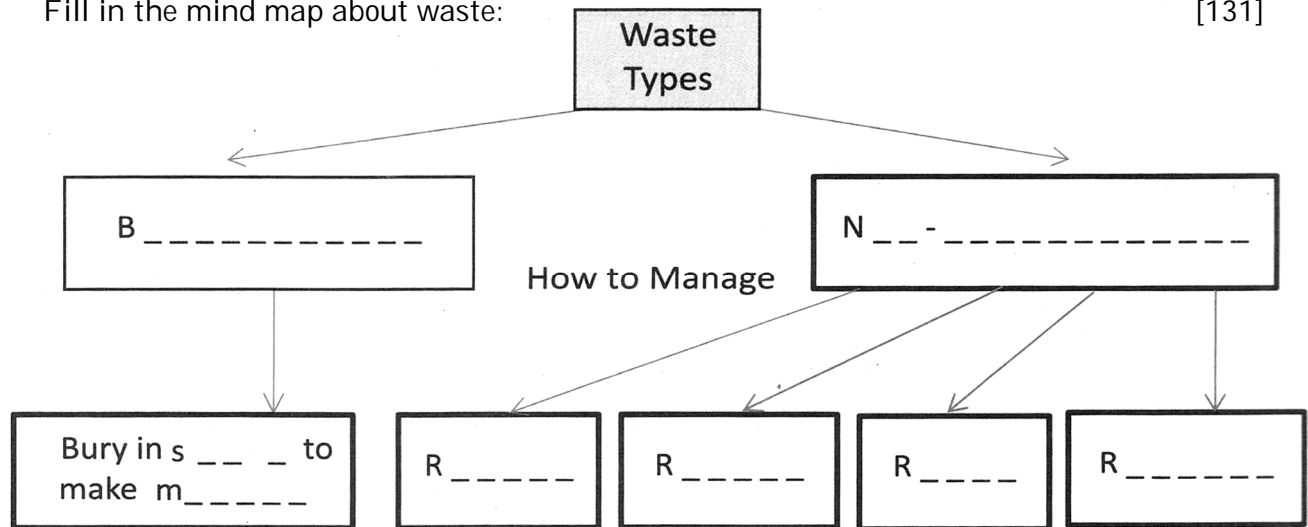
\_\_\_\_\_

**Exercise:**

[131-133]

1. Fill in the mind map about waste:

[131]



2. Multiple Choice Questions:

[131]

(i) Which of these smallest of these living things?

- |           |           |
|-----------|-----------|
| (a) Trees | (b) Mice  |
| (c) Germs | (d) Herbs |

(ii) Which of these should you do to be healthy?

- |                |                           |
|----------------|---------------------------|
| (a) Keep clean | (b) Eat a variety of food |
| (c) Exercise   | (d) All of these          |

(iii) To take care of your teeth, you should:

- (a) brush them every morning  
 (b) brush them every night  
 (c) rinse you mouth well after eating  
 (d) All of these

(iv) Which of this is not a biodegradable waste?

- |                     |                 |
|---------------------|-----------------|
| (a) Vegetable peels | (b) Bones       |
| (c) Plastic bags    | (d) Waste paper |

(v) Using a soft drink plastic bottle to store water in the refrigerator is an example of:

- |              |               |
|--------------|---------------|
| (a) Refusing | (b) Reducing  |
| (c) Reusing  | (d) Recycling |

3. Put ✓ For true, and ✕ for false:

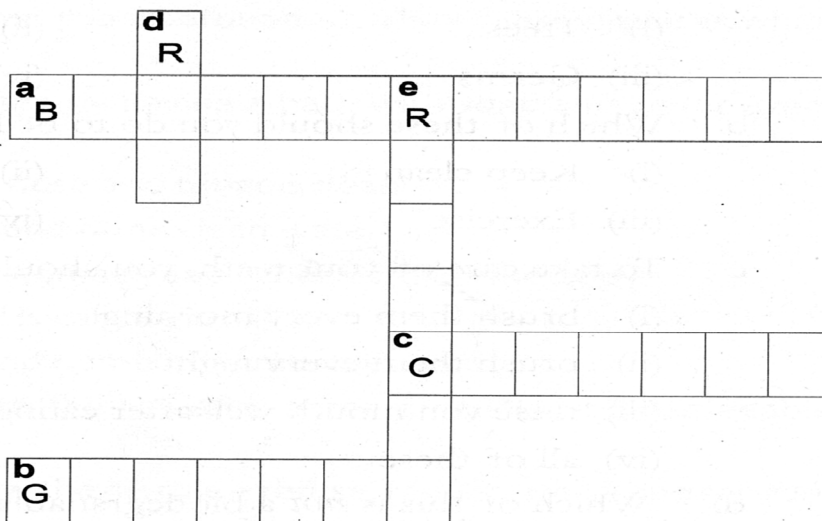
[132]

- i) Some living things are so small that we cannot see them. \_\_\_\_\_
- ii) Germs can make us fall ill. \_\_\_\_\_
- iii) Food particles sticking to your teeth are bad for the teeth. \_\_\_\_\_
- iv) A safe way to dispose off garbage is to burn it. \_\_\_\_\_
- v) If you use a plastic bag again and again you help reduce garbage. \_\_\_\_\_
- vi) Non-biodegradable waste does not rot. \_\_\_\_\_



4. Write 'B' for biodegradable and 'N' for non-biodegradable: [132]
- |                    |                      |                  |                      |
|--------------------|----------------------|------------------|----------------------|
| a. Banana peel     | <input type="text"/> | b. Sawdust       | <input type="text"/> |
| c. Broken glass    | <input type="text"/> | d. Dried flowers | <input type="text"/> |
| e. Plastic flowers | <input type="text"/> | f. Paper         | <input type="text"/> |
| g. Cotton cloth    | <input type="text"/> | h. Woollen cloth | <input type="text"/> |

5. Use the clues to solve the crossword puzzle: [132]



Across:

- Fruit peels are \_\_\_\_\_ waste.
- Solid waste is called \_\_\_\_\_.
- \_\_\_\_\_ is a manure made from biodegradable waste.

Down:

- d. Biodegradable substances \_\_\_\_\_ and mix with the soil.
- e. To \_\_\_\_\_ means to make something useful from waste.

6. Why is disposal of garbage such a big problem?

Ans.

[illegible]

7. Name the two types of waste, giving two examples of each.

Ans.

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8. What are the four steps of reducing waste?

Ans.

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Thinking Questions:

[95]

1. Why do germs attack our bodies? (Hint: what do germs need to live?)

Ans.

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2. Plastic bags have been banned in several cities. Why do you think only plastic bags and not other things made out of plastic such as plastic toys, have been banned? (Hint: How many plastic bags do you throw away in a week? What about other things made of plastic?)

Ans.

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3. These days, to make things look attractive, they are packed beautifully, using a lot of packaging material. Do you think that is good for the environment? Give reasons.

Ans.

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