

	<p><b>BCM SCHOOL</b> <b>Basant Avenue, Dugri Road, Ludhiana</b> <b>PAPER PATTERN ASSIGNMENT 2025-26</b> <b>Class - IV SUBJECT-SCIENCE</b> <b>CH-8 SOUND AND NOISE, CH-10 LIGHT AND SHADOW,</b> <b>CH-11 SIMPLE MACHINE, CH-12 CLEANLINESS AND HYGIENE</b> <b>ANSWER KEY</b></p>
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**MCQ**

**Q1 Which action is an example of a pull?**

✓ C. Opening a drawer

**Q2. Why do we sprinkle sand on a slippery road?**

✓ C. To increase friction

**Q3. Which part of the plant helps in making food?**

✓ D. Leaf

**Q4. Which situation shows the effect of friction as a force?**

✓ C. A moving bicycle slowing down

**Q5 ASSERTION / REASON**

Assertion (A): A ball moves when we kick it.

Reason (R): Force can make an object move.

✓ a) Both A and R are correct

**Q6. ANALOGY**

i) Push : Away :: Pull : Towards

ii) Friction : Movement :: Brake : Speed

(Brake reduces speed just as friction affects movement)

**Q7. RECTIFY THE SENTENCES AND MAKE THEM SCIENTIFICALLY CORRECT**

i) Incorrect: Friction makes surfaces slippery.

✓ Correct: Friction makes surfaces rough and helps objects to stop.

ii) Incorrect: Plants take in oxygen during photosynthesis.

✓ Correct: Plants take in carbon dioxide during photosynthesis.

**Q8. GIVE ONE WORD ANSWER**

i) Which force pulls objects towards the Earth?

✓ Gravitational force

ii) What green pigment helps plants make food?

✓ Chlorophyll

### Q9. COMPLETE THE TABLE

#### Type of Force

1. Attracts iron rod

Magnetic force

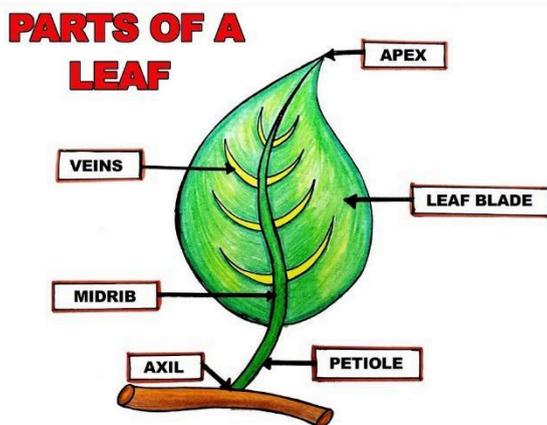
2. Pushing a heavy box

Muscular force

3. We stay on the ground instead of floating

Gravitational force

### Q10. DRAW, LABEL AND COLOUR



### Q11. ANSWER IN ONE SENTENCE

(i) How does friction slow down a moving object?

Friction opposes motion and reduces the speed of a moving object.

(ii) Which part of the plant helps it breathe?

Leaves help the plant breathe through tiny pores called stomata.

### Q12. ANSWER IN 2–3 SENTENCES

Describe three harmful effects of friction.

Friction causes wear and tear of machine parts.

It produces heat which can damage objects.

It wastes energy and reduces efficiency.

### Q13. LONG ANSWER TYPE

What are the roles of the parts of a plant? Explain in detail.

**Roots fix the plant in the soil and absorb water and minerals.**

The stem supports the plant and transports water and food.

Leaves prepare food by photosynthesis and help in breathing.

Flowers help in reproduction and fruits protect seeds.

**Q14. CASE STUDY – 1**

**Q1. Which action from the story shows a push used to make an object move?**

Pushing the door to close it / pushing the swing.

**Q2. Identify one activity from the story where pull is used.**

Pulling the bucket of water / pulling the bag handle.

**Q3. If Priya wants to move a heavy table away from the wall, should she push or pull it? Give a reason.**

She should push it because pushing helps move heavy objects away safely.

**Q4. Name one daily life activity (not mentioned in the story) that involves both push and pull.**

Opening and closing a drawer / playing football.

**Q5. How do push and pull help us in doing work easily?**

Push and pull help us move, lift, or stop objects, making daily tasks easier.

**Q15. PICTURE BASED QUESTIONS**

Write whether each picture shows a “push” or a “pull”.

(From left to right)

Top Row

Pressing a switch → Push

Moving a baby pram → Push

Pulling crackers apart → Pull

Bottom Row

Moving a shopping trolley → Push

Car pulling a trailer → Pull

Bird pulling a worm → Pull

**Draw another “push” and “pull” picture**

Push (example answer): Pushing a door, Pushing a box

Pull (example answer): Pulling a rope, Pulling a bucket from a well