Teacher Visit Worksheet

CBSE · AP · ICSE | Classes 3–12 | Before · During · After the visit

School: _____ Class/Section: _____ Board: CBSE / AP / ICSE

Student name: _____ Date of visit: _____ Teacher: _____

How to use: pick the grade-band page for your class (pages 2–3). Students complete Part A in class, Part B at ARKA, and Part C back at school. Chapter references are topic-level guides; match them to your current textbook edition.

PART A · BEFORE THE VISIT

1. Write one question you want to investigate at ARKA.

2. Predict what you will observe. Give a reason ("I think... because...").

PART B · DURING THE VISIT (Observation log)

Zone / experiment	What I observed	What changed / stayed same

Sketch & label one thing you saw

Record a measurement or count (with units)

PART C · AFTER THE VISIT

1. Was your prediction correct? Use evidence from Part B.

2. Write one new question and how you could test it in class.

Grade-band tasks

Choose the band for your class · tasks mapped to CBSE · AP · ICSE topics

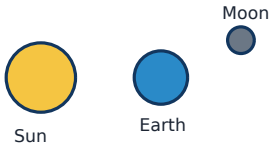
Classes 3–5

Observe, sort and describe

Dome Planetarium

Draw the Sun, Earth and Moon. Show which side of Earth has day.

Curriculum link: EVS: Sun, Moon & day–night (CBSE/NCERT EVS; AP EVS; ICSE EVS)



Aqua Panorama Theatre

Name three sea animals you saw. Circle the one that breathes air.

Curriculum link: EVS: Animals and their habitats; water life

Your diagram here

Working Science Models

Which model used a push or pull? Draw an arrow showing the force.

Curriculum link: EVS / Science: force, simple machines

Your diagram here

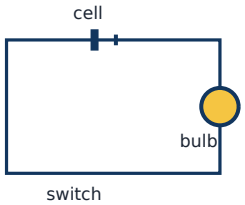
Classes 6–8

Measure, compare and explain

Physics & Biology Lab

Draw a simple circuit (cell, switch, bulb). Mark if it is open or closed.

Curriculum link: Science: electric current & circuits (Class 6–8 NCERT/AP/ICSE Physics)



Physics & Biology Lab

Look at a leaf or onion cell under the microscope. Label cell wall, nucleus.

Curriculum link: Science: cell – structure & functions (Class 8)

Your diagram here

Dome Planetarium

Sketch the Moon's phases in order for one month.

Curriculum link: Science: stars & the solar system / Moon phases



Grade-band tasks

Choose the band for your class · tasks mapped to CBSE · AP · ICSE topics

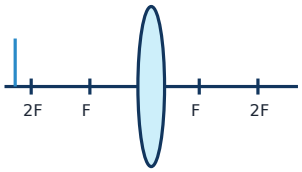
Classes 9–10

Model, calculate and reason

Physics & Biology Lab

Ray diagram: object beyond 2F of a convex lens. Describe the image formed.

Curriculum link: Class 10 Science: Light – reflection & refraction



Working Science Models

Calculate speed: distance ÷ time for a moving model. Show units.

Curriculum link: Class 9 Science: Motion; Force & laws of motion

Your diagram here

AI & Robotics Lab

Write the sensor → decision → action steps of a line-following robot.

Curriculum link: Computer applications / ICT; Class 10 magnetic effects (motors)

Your diagram here

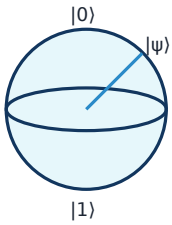
Classes 11–12

Analyse, quantify and connect

Quantum Computing Lab

Write a qubit state $|\psi\rangle = \alpha|0\rangle + \beta|1\rangle$. If $\alpha = \beta = 1/\sqrt{2}$, find P(0) and P(1).

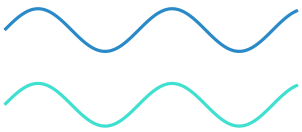
Curriculum link: Class 12 Physics: dual nature of radiation & matter; probability



Physics & Biology Lab

Sketch an interference pattern. Mark bright (constructive) and dark (destructive) fringes.

Curriculum link: Class 12 Physics: wave optics



in phase → bright; out of phase → dark

Motion Capture / VR

Track a joint angle during a jump. Sketch angle vs. time and describe it.

Curriculum link: Class 11 Physics: kinematics; Biology: locomotion & movement

Your diagram here

Teacher notes & curriculum map

For planning — confirm activities with ARKA before travel

CURRICULUM REFERENCE MAP (topic level)

Band	CBSE (NCERT)	AP (SCERT)	ICSE (CISCE)
3–5	EVS: Sun–Moon, animals, water	EVS: our environment, living things	EVS: plants, animals, Earth
6–8	Light, electricity, cells, Moon	Light, electricity, cell structure	Light, current, the cell
9–10	Motion, light, magnetic effects	Motion, light, electricity	Light, motion, electromagnetism
11–12	Wave optics, dual nature	Wave optics, modern physics	Optics, quanta, kinematics

References are topic-level and indicative. Textbook chapter names and numbers change between editions; confirm against your current prescribed book. ARKA confirms the final board/chapter mapping for your group in the written quote.

ASSESSMENT RUBRIC (4 points each)

- ☐ Prediction includes a reason ___ / 4
- ☐ Observations are specific and recorded during the visit ___ / 4
- ☐ Diagram is labelled and accurate ___ / 4
- ☐ Conclusion uses evidence and links to the class topic ___ / 4

BEFORE YOU TRAVEL

- Ask ARKA to confirm activities, timings, accessibility and group capacity.
- Share student count, classes and board so tasks can be matched to your syllabus.
- Final prices and any group discount are confirmed in your written quote.