FieldWise

PHYSICS

STUDENT & TEACHER USER GUIDE

# How to use FieldWise Physics

Motion, forces, energy and measurement — investigate physics with the device sensors and structured recording.

**For secondary students & their teachers**

Physics — practical measurement and investigation.

Parrotrees Industries · Melbourne
iPad & iPhone · works offline

ORIENTATION

# What the app does & how it fits your class

FieldWise Physics turns your device into a physics lab. Use the sensor lab and topic tools to investigate motion, forces, waves, light and electricity, recording structured measurements — offline, and shared back to your class.

### The app's main areas

| Area | What it's for |
|---|---|
| **Assignments** | Your home — tasks set by your teacher. |
| **Sensor Lab** | Use the device sensors to measure and record. |
| **Kinematics** | Motion investigations. |
| **Mechanics** | Forces and energy. |
| **Waves** | Wave investigations. |
| **Light** | Light and optics. |
| **Circuits** | Circuit investigations. |
| **Electricity** | Electricity measurements. |

**Note.** FieldWise is **privacy-first**: students are identified by first name and a class code only. You capture work on your device — it saves offline in the field — and it syncs to your class in **FieldWise Core** (your teacher's hub) when you're back online.

## What's in this guide

- **For students** — getting started, the tools, recording your work, and building your evidence and report.
- **For teachers** — FieldWise Core: classes, class codes, assignments, review and reporting.
- **Reference** — a recommended workflow, troubleshooting and a glossary.

FOR STUDENTS · 1

# Getting started

## Joining your class

1. Open FieldWise Physics on your iPad or iPhone.
2. Enter the **class code** your teacher gives you, and your **first name** — that's all the app needs.
3. Your teacher's **assignments** appear in the app, ready to work on.

> **Note.** Minimal data by design — no full names, no emails. Your teacher sets up the class in FieldWise Core (see the teacher section).

## Working offline

You can use the app with no internet — record everything in the field, and it saves on your device. When you're back on wi-fi, your work syncs to your class automatically.

## Finding your way around

The main areas sit on the tab bar:

**Assignments** **Sensor Lab** **Kinematics** **Mechanics** **Waves** **Light** **Circuits** **Electricity**

> **Tip.** Read the assignment first, then open the tool it asks for — the app is organised so each task has a place to record it.

FOR STUDENTS · 2

# The physics tools

Physics is organised around the sensor lab and topic areas:

| Tool / area | What you do with it |
|---|---|
| Sensor Lab | Measure with the device sensors and record the data. |
| Kinematics | Investigate motion — distance, time, speed and acceleration. |
| Mechanics | Forces and energy investigations. |
| Waves | Investigate wave behaviour. |
| Light | Light and optics investigations. |
| Circuits & electricity | Record circuit and electricity measurements. |

**Tip.** Take repeat readings and let the app record them — a set of measurements is far stronger than a single number.

FOR STUDENTS · 3

# Recording your work & building evidence

## Capturing observations

Record each investigation with its measurements and results, using the sensor lab to capture data directly.

- Add **photos** as evidence, with the details that matter for your subject.
- Your records are grouped so a piece of work reads as a clear, complete set.
- Everything is tied to your class assignment, so your teacher can see it in context.

## Your Evidence & portfolio

Your investigations and measurements collect for review and reporting.

## Reporting & submitting

When you've finished, write up your findings and **submit** your work to your teacher through your class. You can also export a PDF of your report or field record to keep.

> **Tip.** Record as you go and add a photo at each step — it's far easier than trying to remember the detail back in class, and it makes your final report much stronger.

FOR STUDENTS · 4

# A worked example — a field task start to finish

Here's how a typical Physics task flows in the app, so you know what to expect:

| Stage | What you do |
|---|---|
| Get the task | Open the app; your teacher's assignment is waiting on your home tab. |
| Prepare | Read what's being asked and open the tool it needs — for example **Sensor Lab**. |
| Record on site | Capture your observations and measurements, adding a photo to each — even with no internet. |
| Check as you go | Make sure each part of the task has a record before you leave the site. |
| Write up | Turn your records into a short write-up or report in the app. |
| Submit | Send your finished work to your class; it uploads when you're back online. |

**Note.** Nothing is lost if you're offline — the whole example above works with no signal, and your work syncs to your class the next time you're on wi-fi.

**Tip.** If a task has several parts, do them in order and tick each off — a complete set of records makes your write-up quick and your evidence strong.

CURRICULUM & SKILLS

# What this app helps you learn

FieldWise Physics is built for **Physics — practical measurement and investigation.** Curriculum-aligned fieldwork, and it develops the skills that matter in the subject:

- **Working in the field** — planning, observing, measuring and recording accurately on site.
- **Structured evidence** — collecting complete, comparable records rather than scattered notes.
- **Analysis & interpretation** — turning what you gathered into findings and an argument.
- **Communicating results** — writing up and presenting your work as a report or portfolio.

## Assessment

Because your work builds into structured records and a evidence & portfolio, it's ready for your teacher to assess — and you keep an exportable copy of what you produced.

> **Note.** Your teacher sets the specific tasks and how they map to your course through FieldWise Core; the app gives you the tools and the place to record.

> **Tip.** Treat every field record as part of your assessment evidence — the neater and more complete it is on the day, the stronger your final mark-worthy write-up.

FOR STUDENTS

# Offline, privacy & your work

## Working offline

Field sites often have no signal — that's expected. Everything you record saves on your device and **syncs to your class automatically** when you're next on wi-fi. You never have to be online to do fieldwork.

## Your privacy

- You join with a **first name and class code** only — no full name, no email.
- Only your teacher's class sees your submitted work.
- The app collects the minimum it needs for the task, by design.

## Keeping your work safe

- Sync when you get back to wi-fi so your work reaches your class and isn't only on one device.
- Export a PDF of a finished report or record if you want your own copy.

**Note.** If you change or reset your device before syncing, unsynced work may be lost — get back online and sync after a field day.

FOR TEACHERS

# FieldWise Core — your class hub

FieldWise Physics connects to **FieldWise Core**, the teacher hub shared across the FieldWise Education apps. Core is where you set up classes and see your students' work come back.

## Setting up

1. Create a **class** in FieldWise Core and share its **class code** with students.
2. Set **assignments** — the tasks that appear in each student's app.
3. As students work, their submissions sync back to the class for you to review.

## Review & reporting

- Review student submissions and give feedback.
- Track progress across the class with dashboards and reporting.
- Students' work builds into portfolios you can assess and export.

**Note.** Privacy-first by design: students join with a first name and class code only, so you're not collecting more student data than a fieldwork task needs.

**Tip.** Set one small assignment first and have students join with the class code in class — once they've done the join-and-submit loop once, a real field day runs smoothly.

BEST PRACTICE

# A recommended way to run a field task

A dependable order for students and teachers:

| Step | What happens |
|---|---|
| 1 · Teacher sets up | Create the class, share the code, set the assignment in FieldWise Core. |
| 2 · Students join | Enter the class code and first name; the assignment appears. |
| 3 · Plan / prepare | Read the task and get the right tool ready before heading out. |
| 4 · Record in the field | Use the subject tools to capture observations and photos — offline is fine. |
| 5 · Build evidence | Collect records into your evidence & portfolio as you go. |
| 6 · Write up | Turn observations into a report or write-up. |
| 7 · Submit & sync | Send work to your class; it syncs when back online. |
| 8 · Review | The teacher reviews, gives feedback and assesses. |

**Tip.** The two habits that matter most: **record on site, not from memory**, and **add a photo to each observation** — together they make a student's report accurate and complete.

REFERENCE

# Troubleshooting & glossary

## Quick troubleshooting

| If… | Then… |
|---|---|
| You can't join a class | Check the class code with your teacher, and that you've typed it exactly. |
| Your work isn't showing for the teacher | It syncs when you're back online — reconnect to wi-fi and it will upload. |
| The app has no internet in the field | That's fine — keep recording; everything saves on the device and syncs later. |
| You can't find an assignment | Assignments come from your teacher in FieldWise Core; ask them to set or re-share it. |

## Glossary

| Term | Meaning |
|---|---|
| Class code | The code your teacher shares so you can join the class. |
| FieldWise Core | The teacher hub for classes, assignments, review and reporting. |
| Evidence & portfolio | Your collected investigations and measurements across the subject. |
| Field record | A structured record of what you observed and measured on site. |
| Submit | Send your finished work to your class for your teacher to review. |

### Fieldwork that works in the field

FieldWise Physics is part of the FieldWise Education suite — one platform, every subject. Works offline, privacy-first, and connected to your class through FieldWise Core. fieldwiseeducation.com.au