

PLANT POWER

INFORMATION FOR TEACHERS

A four-week environmental science, literacy and mathematics programme for learners aged 5-10



Grow • Measure • Investigate • Explain • Act

THE PLANTPOWER PROGRAMME AT A GLANCE

WHAT IS PLANTPOWER?

PlantPower is an integrated primary-school programme that connects plant science, indoor and outdoor environments, literacy, mathematics, wellbeing and environmental responsibility. The programme uses characters, real plants and four connected missions to help children investigate plants, airborne chemicals, healthy environments and environmental action while practising literacy, mathematics and scientific thinking.

The programme is designed in two connected bands: PlantPower Explorers for ages 5-7 and PlantPower Investigators for ages 8-10. Both groups explore the same big ideas, with different reading, writing, mathematics and inquiry expectations.



PLANTPOWERMAN™

PlantPower Explorers

for ages 5-7



What learners do

- 1 Adopt or care for a real plant and keep a Plant Diary.
- 2 Observe, measure and record plant growth across four weeks.
- 3 Learn how plants live and interact with light, water, air, roots, soil and microorganisms.
- 4 Investigate airborne chemicals and where some can come from in manufactured indoor environments.
- 5 Find out how plants help clean the air through transpiration and photosynthesis.
- 6 Read, discuss and create narrative, information and explanation texts.
- 7 Collect, display and interpret measurement and environmental data.
- 8 Work in a squad on classroom investigations, share what they learned and take action.

PlantPower Investigators

for ages 8-10



The four missions

Mission	Big question	Typical learner outcomes
 Meet the PlantPower Team	What makes a plant a living thing?	Plant Diary, baseline measures and first prediction.
 Be an Air Detective	What is in the air around us?	Air Detective audit and source categories.
 Power Cleaning	How do Plantpowerman and plants clean the air?	Plantpowerman's Hydrobelt story explains how plants clean the air.
 Over to you	How will you keep helping as a PlantPower Kid?	Conclusion, what I will do, and the squad shares its work.

CURRICULUM, evidence AND LEARNING DESIGN



Curriculum connections

Language	Oral language, scientific vocabulary, reading for information, comprehension, labels, descriptions, explanations and persuasive/information communication.
Mathematics	Counting, comparison, metric measurement, time, repeated data collection, tables, graphs, patterns, interpretation and reasoning.
Science	Living systems, plant needs and structures, air and matter, scientific observation, prediction, testing, evidence, ecosystems and environmental decision-making.
Cross-curricular capabilities	Collaboration, responsibility, communication, creativity, digital participation and local environmental action.



What the evidence says

Plants are powerful partners in creating healthier indoor environments. Research shows that indoor plants can interact with and remove a range of airborne chemicals released by our man-made surroundings, including formaldehyde, benzene and toluene, through processes involving the leaves, roots, growing media and microorganisms around the roots.

Plants also naturally release moisture through transpiration, helping to increase indoor humidity and influence temperature and thermal comfort.

Beyond the physical environment, research has linked indoor greenery with more relaxed physiological responses, enhanced cognition, positive wellbeing and improved academic achievement.

Together, the evidence shows that plants are far more than decoration: they are living systems that interact with the air around us and can contribute to indoor environments that are healthier, more comfortable and more supportive of how we live, learn and feel.



Our aim for every child

Every child should
grow something,
measure something,
investigate something,
explain something and
do something positive
for the environment.

DELIVERING PLANTPOWER in the classroom

What teachers receive

- ✓ Teacher guide with lesson plan
- ✓ Two age-level workbooks
- ✓ Print-ready booklets
- ✓ Squad handouts (8)
- ✓ Assessment checklist
- ✓ Access to online support

PRACTICAL DELIVERY

Duration	Four weekly missions of about 30 minutes, plus a short class mission between Missions 1 and 2, with short observation and measurement activities between sessions
Grouping	Whole-class teaching supported by pairs or small investigation teams.
Plant requirement	A classroom plant investigation. Individual plants can be used where resources allow, but the learning design should not depend on every learner receiving a plant.
Equipment	Explorers measure in hands, Investigators in centimetres (rulers). A large piece of paper for each squad, an atlas or globe, and a few fabric samples for the Fabricaa Foilers
Safety	Select plants and materials using school safety requirements, allergy considerations, plant toxicity information and age-appropriate handling expectations. Smelling tasks are gentle and optional. Children look but do not sniff or touch for the Gasman Guards tasks
Assessment	Use plant records, discussion, explanations, graphs and final actions as evidence of learning.

HOW THE CLASS SQUAD MODEL WORKS

- 1 **Introduce the mission:** Explain that the class will work together in four squads, and learn about the natural world and help PlantPowerman and the PlantPower Team.
- 2 **Form squads:** You divide the class into the four squads. Every squad completes all the tasks on its own handout.
- 3 **Learn and plan:** Squads meet their hero online, get their handout and plan who leads each task.
- 4 **Take action:** Squads work through their tasks alongside the missions and tick off each week's work.
- 5 **Share and reflect:** In Mission 4 each squad shares what it found out and shows its classroom design.
- 6 **Keep going:** Children can carry on online with a parent or guardian.



WWW.PLANTPOWERKIDS.COM

the programme continues online

The PlantPower Kids website is part of the learning experience. It extends the programme beyond the classroom, allowing children to continue their PlantPower journey online.

1 The class is divided into squads.



**FABRICAA
FOILERS**

**ELECTRONZZ
ENDERS**



Each squad gets its own handout of tasks.

2

3 Complete all the tasks and prepare to share.

**GASMAN
GUARDS**



**PAPERAZZI
PATROL**



Children may use a hero alias and avatar with parent or guardian involvement where required.

4

Connecting challenges to the four-week programme

Before / Week 1	Week 1	Week 2	Week 3	Week 4	Ongoing / home-school link
					
Plan the programme and get resources ready	Mission 1: meet the PlantPower Team. Class mission: join a squad and get your handout.	Mission 2: Be an Air Detective. Squads work on their tasks.	Mission 3: Power Cleaning. Squads continue their tasks and design their classroom.	Mission 4: Over to you. Squads share their work.	Carry on with the challenges and being part of the programme



Teacher choice matters

You know your class best. Adapt the handout tasks to suit your learners, your classroom and your local context. The squad handouts are a guide.

RESOURCES, RECOGNITION AND NEXT STEPS



Programme completion certificate

A PlantPower completion certificate is coming soon, to recognise every child who completes the four missions and their squad handout.

We will let you know as soon as it is ready.



Optional extension: a Green Room inquiry

Extend PlantPower through a deeper, student-led inquiry in your school's Green Room. This optional extension helps students take action, collaborate and showcase their learning in authentic ways.



Why schools may value PlantPower

PlantPower connects with sustainability, health and wellbeing, and cross-curricular learning goals.

It builds knowledge, skills and positive habits that support future-focused learners and communities.



Further information

Visit www.plantpowerkids.com for free teacher resources and student materials (sign-up required).

Challenge badges can be purchased online if needed.

For all purchasing options and programme enquiries:



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THANKS FROM
THE
PLANTPOWER
TEAM!

