

# Hands-on Science Programs by Grade Level

## Elementary (Ages 5-10) – Early Exploration & Fun Hands-On Learning

These kits focus on **engagement, simple experiments, and hands-on discovery** without heavy theoretical concepts.

### General Science & STEM

1. **KiwiCo Tinker Crates (Ages 5-8)** – Hands-on STEM projects for young learners.
2. **Magic School Bus Science Kits** – Fun, themed experiments inspired by the books & show.
3. **Green Kid Crafts Science & Nature Kits** – Eco-friendly science activities.
4. **Einstein Box Science Experiment Kit** – Beginner-friendly experiments for curious kids.
5. **Thames & Kosmos Kids First Science Laboratory** – A great introduction to science concepts.

### Biology & Life Sciences

6. **Grow ‘N’ Glow Terrarium** – Teaches about plants, ecosystems, and photosynthesis.
7. **Real Bug Specimen Kit** – Lets kids examine real preserved insects up close.
8. **Ooze Labs Biology Lab** – Fun biology experiments with slime and cells.
9. **National Geographic Microscope & Biology Kit** – Kid-friendly microscope with prepared slides.

### Chemistry

10. **Fizz! Chemistry Set (Yellow Scope)** – Fun chemistry experiments, especially for young girls.
11. **Be Amazing! Big Bag of Science** – A mix of chemistry and other fun science activities.
12. **Steve Spangler Science Chemistry Kit** – Easy experiments with big visual effects.

### Physics & Engineering

13. **Snap Circuits Jr.** – A beginner-friendly introduction to electricity and circuits.
14. **LEGO Chain Reactions Science & Engineering Kit** – Teaches physics using LEGO.
15. **Thames & Kosmos Simple Machines Kit** – Hands-on learning about levers, pulleys, and gears.

### Earth Science & Astronomy

16. **National Geographic Rock Tumbler Kit** – Kids polish rocks and learn about geology.
17. **Dinosaur Dig Kit (National Geographic)** – Lets kids excavate fossils like real paleontologists.
18. **Magic School Bus Exploring Volcanoes Kit** – Fun eruptions and geology activities.

19. **4M Solar System Planetarium Kit** – Paint and build a glow-in-the-dark solar system.
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## **Middle School (Ages 10-14) – Deeper Scientific Concepts & Interactive Projects**

These kits introduce **more complex experiments** with real-world applications.

### **General Science & STEM**

- 20. **MEL Science Kits** – Subscription-based kits with VR lessons and advanced experiments.
- 21. **KiwiCo Eureka Crates** – Monthly STEM projects for pre-teens.
- 22. **Thames & Kosmos Physics Pro** – In-depth physics experiments.

### **Biology & Life Sciences**

- 23. **Ooze Labs Biology Lab** – More advanced than elementary biology experiments.
- 24. **National Geographic Microscope & Biology Kit** – With higher magnification for real scientific observation.
- 25. **Dissection Kits (Frog, Squid, Owl Pellets)** – Great for hands-on biology learning.

### **Chemistry**

- 26. **Thames & Kosmos Chem C1000** – A solid introduction to chemistry with lab tools.
- 27. **National Geographic Mega Chemistry Kit** – 45+ chemistry experiments.

### **Physics & Engineering**

- 28. **Snap Circuits Pro** – Advanced circuit-building projects.
- 29. **K'NEX Education STEM Explorations Kits** – Focused on engineering and mechanics.
- 30. **Smart Circuits Games & Gadgets Electronics Lab** – Lets kids create functioning electronic projects.

### **Earth Science & Astronomy**

- 31. **GeoCentral Break Your Own Geodes Kit** – Hands-on rock and mineral exploration.
  - 32. **Thames & Kosmos Crystal Growing Kit** – More advanced than the elementary version.
  - 33. **National Geographic Space Exploration Kit** – Includes a projector and hands-on activities.
  - 34. **NASA Lunar Telescope for Kids** – Great for beginner stargazing.
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## High School (Ages 14+) – Advanced Scientific Exploration & Lab-Level Experiments

These kits include **more detailed scientific methods** and **real-world applications** for in-depth learning.

### General Science & STEM

- 35. **MEL Science (High School Level)** – Advanced chemistry, physics, and STEM kits.
- 36. **Thames & Kosmos Advanced Physics Kit** – Covers motion, forces, and energy concepts.

### Biology & Life Sciences

- 37. **National Geographic Advanced Microscope Kit** – Higher magnification and real lab slides.
- 38. **DNA Extraction Kit** – Hands-on genetic experiments.
- 39. **Real Dissection Kits (Fetal Pig, Cow Eye, or Frog)** – For real lab-based biology.

### Chemistry

- 40. **Thames & Kosmos Chem C2000** – A more advanced chemistry kit with real reagents.
- 41. **Organic Chemistry Model Kit** – Helps students visualize molecules and compounds.

### Physics & Engineering

- 42. **Arduino Starter Kit** – A great intro to coding and electronics.
- 43. **Raspberry Pi Starter Kit** – For students interested in computer science and programming.
- 44. **Thames & Kosmos Robotics Workshop** – A solid introduction to robotics and automation.

### Earth Science & Astronomy

- 45. **National Geographic Professional Rock Tumbler Kit** – A high-quality tumbler for serious geology study.
- 46. **DIY Weather Station Kit** – Learn how to track and predict the weather.
- 47. **Celestron Advanced Telescope** – For serious astronomy students.