

THE HERO ACADEMY

The Hero's Quest for Knowledge Curriculum

The Alchemist's Compendium

Answer and Assessment Guide

Science

Veritas. Virtus. Scientia.

Truth. Virtue. Knowledge.

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SCI-K-01 | printable section

Includes SCI-K-01. These introductory sections do not constitute a complete kindergarten course or a finished K-12 curriculum.

The four companion books

The Student Book explains concepts through reading, examples, and diagrams. The Adult Teaching Guide provides modeling and supported practice. The Student Workbook holds activities and checks. The Answer and Assessment Guide supplies keys, criteria, and retry guidance.

The K-12 learning roadmap is the plan for future content, not a lesson book. These four growing books contain only the sections listed below.

Using this edition

A beginning reader needs an adult to read the explanatory passages aloud. Independent word reading is expected only for explicitly taught patterns in Reading. An adult supplies safe materials and supports access; oral responses, pointing, or drawings can demonstrate the same skill.

Lesson and activity IDs stay together across the four books. For example, a lesson ending L01 links to the activity ending W01 in the same unit. Each unit finishes with its A01 section check. Matching edition 0.3 components should be used together.

Contents

SCI-K-01 | Observing and comparing

SCI-K-01-L01 - Observations describe what is noticed

SCI-K-01-L02 - Comparisons use the same feature

SCI-K-01-L03 - A record separates observations from explanations

Learning at an individual pace

The learner revisits the relevant explanation after feedback, then tries a fresh example. Successful demonstration of each target is a suggested local progression rule, not a validated placement score. Personal beliefs and agreement with the author are never graded.

Observing and comparing

Before this section

The learner communicates observations through speech, pointing, drawing, or an accessible alternative. An adult reads the text.

Materials

A clean leaf or paper leaf, two large safe objects with different textures, two straight paper strips of equal width and different lengths prepared by an adult, paper, and a pencil. No tasting, smelling unknown substances, or outdoor collecting is required.

Recording evidence

The guide checks the demonstrated skill, not handwriting neatness, speed, or agreement with a personal view. Record the response, support provided, and what needs another example. Do not infer a diagnosis or a grade-level placement from these short checks.

Observations describe what is noticed

Distinguish an observable feature from a personal preference.

Reading and teaching reference: SCI-K-01-L01

1. Accept an accurate observable feature of the object used. Do not invent a universal answer.
2. “The paper is folded.” The second sentence describes a preference.
3. Accept the method actually used. Adaptations do not reduce the score.

Comparisons use the same feature

Compare two objects by a named observable property.

Reading and teaching reference: SCI-K-01-L02

1. Two objects and an identifiable comparison feature.
2. A statement supported by the objects; answers vary.
3. Align one end of each strip, then compare the other ends.

A record separates observations from explanations

Record an observation and a question without inventing an answer.

Reading and teaching reference: SCI-K-01-L03

1. An observed crease, shape, or other actual feature.
2. Accept a safe, checkable question; the adult may help refine broad wording.
3. Accept a genuine unknown; do not require disclosure of personal information.

Section check

1. A checkable description or equivalent pointing/drawing.
2. A comparison tied to visible or safely accessible evidence.
3. A question identified as unanswered.

After feedback

Model a single feature and offer two concrete choices. Revisit the same objects, then transfer the skill to a new safe object.

Progress record

Lesson / check ID: _____

Demonstration and support: _____

Needs another example / demonstrated: _____

Date and next step: _____

Sources and content notes

Instruction, practice tasks, and illustrative examples were authored for this series. Invented scenes and diagrams are not historical evidence or measured research data. Source references support the specific concepts below, not a claim of complete topic coverage.

SCI-K-01

Editorial investigation sequence: observe an object, describe one change, compare actual results, and keep a record. Adult-supported tasks develop careful observation before explanations or numerical force calculations. This section is introductory.

NASA-SCIENCE | NASA Space Place: What Is Science?

Background on observation, questions, evidence, and revising explanations. Only these broad concepts inform the introductory paper-observation activities; the page is not a curriculum framework and its historical examples are not reproduced.

<https://spaceplace.nasa.gov/science/en/>

Use and revision

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