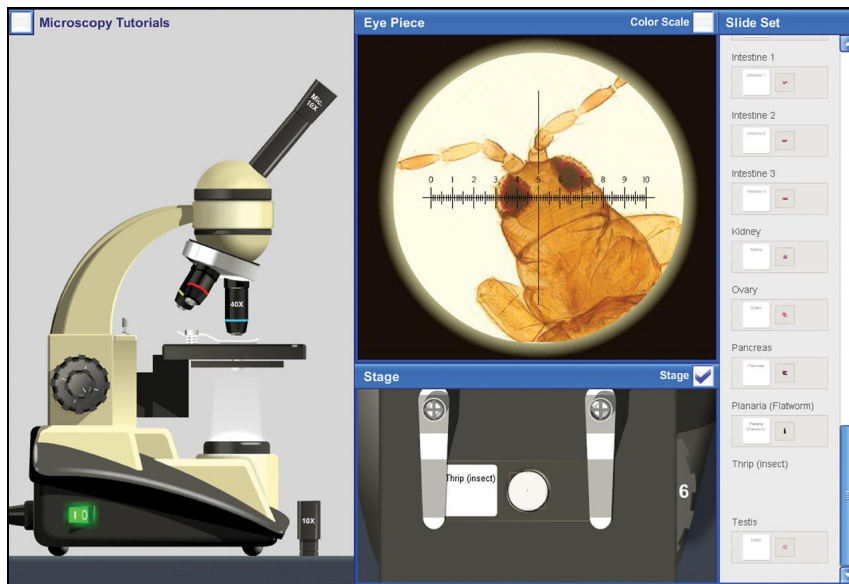




# Exploring the Nature of Science



Exploring the Nature of Science is part of the comprehensive Exploring Science program, which has been designed for students in Grades 6-8.

The program includes multimedia science lesson materials, interactive assessment, and scientific equipment.

Exploring the Nature of Science comprises 15 multimedia science lessons for student use. Each lesson covers a specific topic area, and provides essential theory, hands-on practical activity and continuous student assessment.

For ease of use, each lesson has the same structure:

- Lesson overview
- Theory presentation
- Practical activity containing automatic student assessment and guidance
- On-screen student workbook for recording of practical results
- Supporting on-screen help and reference information
- An on-screen Assessment test

Practical activities take a wide range of forms, including:

- Experiments involving scientific equipment
- Discovery through on-screen applications and simulations
- Research based tasks

## Lesson Topics

### Scientific Skills:

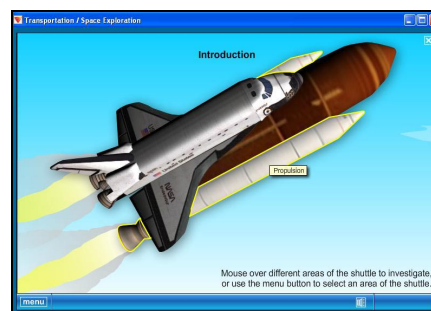
- Laboratory Safety
- Conducting an Experiment
- The Scientific Method
- Using a Virtual Microscope
- Using a Microscope
- History of Science Innovation

### Science and Technology:

- Design and Problem Solving
- Transportation and Space Exploration
- Contributors to Science and Technology

### Science in Personal and Social Perspectives:

- Science in our World
- Diet
- Exercise
- Health
- Populations, Resources, Environment
- Natural Hazards



This interactive application explores the transportation technologies used in a Space Shuttle

## Study Kits

Where a lesson requires specific items of equipment, this is provided in a separate study kit for the lesson.

Each study kit is provided in an equipment tray for ease of storage. The lid of each tray is printed for easy inventory control.



Students use real laboratory equipment

## Running and Managing Lessons

Multimedia science lessons may be run on a standalone PC, over a local computer network (LAN), or via the Internet.

Student progress and performance may be automatically tracked using the following optional management software:

- ClassAct classroom-based management software
- ClassCampus online learning management software

The reporting facilities provided by the learning management software also allow the teacher to automatically report on the progress and performance of individual students, or of the class as a whole.



Students carrying out a problem solving activity



# Exploring the Nature of Science

## Ordering Information:

### Standalone or LAN Delivery of Multimedia Science Lessons

For lessons that are to run on standalone computers or over a local area network, the order codes are listed below. Each lesson is provided as a site license.

#### Scientific Skills:

- ST80 NS10/SL Laboratory Safety
- ST80 NS11/SL Conducting an Experiment
- ST80 NS12/SL The Scientific Method
- ST80 NS13VM/SL Using a Virtual Microscope
- ST80 NS13HW/SL Using a Microscope
- ST80 NS20/SL History of Science Innovation

#### Science and Technology:

- ST80 T10/SL Design and Problem Solving
- ST80 T11/SL Transportation/Space Exploration
- ST80 T12/SL Contributors to Science and Technology

#### Science in Personal and Social Perspectives:

- ST80 PSP10/SL Science in our World
- ST80 PSP11/SL Diet
- ST80 PSP12/SL Exercise
- ST80 PSP13/SL Health
- ST80 PSP14/SL Populations, Resources and the Environment
- ST80 PSP15/SL Natural Hazards

### Internet Delivery of Multimedia Science Lessons

To order versions of the lessons that will run over the Internet via the ClassCampus online management system, replace the /SL suffix with /AL. For example, ST80 NS12/AL is the online version of The Scientific Method lesson.

Please note that in order to run lessons via ClassCampus, your school will require a valid Institution Class Campus Registration Annual License (order code **CCOLL/AL**).

## Study Kits

The following study Kits provide the equipment required for the related Exploring the Nature of Science lessons:

#### Scientific Skills:

- ST80 NS12 The Scientific Method Study Kit
- ST80 NS13HW Using a Microscope Study Kit

#### Science and Technology:

- ST80 T10 Design and Problem Solving Study Kit

No other lessons in the Exploring the Nature of Science range require study kits.

## Other items required but not supplied:

- Certain consumable items are not provided, but should be readily available from local suppliers. Please contact LJ Create for further guidance.

Exploring Science Program

	No.	Average time
Nature of Science lessons	15	90 minutes
<b>Total</b>		<b>22.5 hours</b>