



Living with Physical Science



Physical Science Assignments

	Part 1	Part 2	Complete
Motion			
▪ Pushes and Pulls	✓		✓
▪ Effects of Force	✓		✓
▪ Friction		✓	✓
▪ Springs		✓	✓
Electricity & Magnetism			
▪ Magnets	✓		✓
▪ Electrical Conductors	✓		✓
▪ Series Circuits		✓	✓
▪ Parallel Circuits		✓	✓
Sound & Energy			
▪ Sound Travel	✓		✓
▪ Types of Energy	✓		✓
▪ Musical Sounds		✓	✓
▪ Energy Conversion		✓	✓
Light & Heat			
▪ Light Sources	✓		✓
▪ Reflections and Shadows	✓		✓
▪ Light Rays		✓	✓
▪ Cooling		✓	✓

This is an integrated instructional module designed specifically to operate within a modular environment or as stand-alone. It is ideal for use with our ScanTEK Modular Science Program. The complete module includes a 16-assignment exploratory curriculum split into four topic areas: Motion, Electricity & Magnetism, Sound & Energy and Light & Heat. The module is also available in two 8-assignment parts, identified as Part 1 and Part 2.

Through a comprehensive series of hands-on experiments and software based investigations, students discover for themselves physical science concepts. The wide range of activities include building circuits, bending light with prisms, investigating the pitch of sound and testing materials for their friction properties.

This fully resourced module includes hardware specifically designed for the task of teaching the principles of physical science to younger students.

All on-screen and paper-based curriculum materials are provided in both English and Spanish.

Through the use of the Computer Aided Instruction containing high quality graphics, animations and full audio support, students are guided through their assignment. During the assignments students are asked to complete their worksheet and answer questions designed to track and assess their performance.

Worksheets typically involve completing tables of results, adding labels to diagrams, completing sentences and plotting graphs. Assignments in the Part 1 module are targeted at younger students. All assignments include a worksheet reader utility that enables students with reading difficulties to complete their work.

Assessment questions have been designed to address the performance standards identified in the appropriate National Science Standards.



The items supplied with the complete module include:

- Inclined plane apparatus
- Effects of Force accessories
- Friction experiment accessories
- Retort stand
- Spring experiment accessories
- Newton scale
- Electricity trainer
- Magnets experiment accessories
- Energy track
- Sound experiment accessories
- Dynamo flashlight
- Light ray projection box
- Stopwatch
- Digital thermometer
- Heat transfer apparatus
- Class set of worksheets
- Teacher's Guide
- Computer Aided Instruction software

Additional items required:

- Computer
- Access to a freezer compartment

Order as:

- ST20-C Physical Science Complete
- ST20-01 Physical Science Part 1
- ST20-02 Physical Science Part 2

Module Summary (Complete)	No.	Average time
Assignments	16	45 minutes
Extension Activities	11	15 minutes
Total		14¾ hours

Part 1 & 2 modules are approx 7½ hours each.