The Learning Cycle

- Catch a Piece of the Sun
- Solar Wind Catcher
- Summarizing
- Solar Wind

- Exploring Data
- A First Look

- Developing an Investigation
- Exploring Data
- A Closer Look at Solar Wind Regime Speeds
- A Closer Look

- Revising an Investigation
- Peer Review
- Poster Rubric

- A Different Perspective
- A Look From a Different Perspective

Grades 9-12
- Science As Inquiry

Teacher Guide
- Student Text
- Student Activity
- Student Text

Teacher Guide
- Student Text
- Student Activity

Teacher Guide
- Student Text
- Model Student Activity
- Student Activity

Teacher Guide
- Student Text
- Student Activity

Teacher Guide
- Student Activity

Teacher Guide
- Student Text
- Student Activity

Teacher Guide
- Student Activity

Grades 9-12
- Science As Inquiry
- Data Analysis and Probability

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- Observation
- Inferences
- Communication
- Collecting data
- Interpreting data
- Questions

- Questions
- Hypothesis
- Variables
- Procedures
- Collecting Data
- Analyzing Data
- Conclusions

- Communication

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Materials lists for each teacher guide in this module.

Listed below is a quick reference to all teacher guides included in this module along with a complete listing of each guide’s materials, for your convenience.

**Catch A Piece of the Sun**
For each team:
- Student Text, “Solar Wind Catcher”
- Student Activity, “Summarizing”
- Student Text, “Solar Wind”
- Fact Sheet, “How Does Studying the Solar Wind Tell Us About the Origin of Planets”

**Exploring Data**
For each team:
- Student Activity, “A First Look”
- Student Text, “Exploring Data”
- Data printout from one week of solar wind readings from the LANL Web site
- Data printouts for December 19-22, 2002, from the LANL Web site

**Developing an Investigation**
For each student:
- Student Text, “Solar Wind” (if you did not use this in “Catch a Piece of the Sun”)
- Student Text, “Exploring Data”
- Model Student Activity, “A Closer Look at Solar Wind Speeds”
- Student Activity, “A Closer Look”
- Computer access to the LANL Web site, or appropriate data printouts of solar wind summary plots from the LANL Web site

**Revising an Investigation**
For each team:
- Student Text, “Peer Review”
- Student Activity, “Peer Review”
- Student Activity, “Poster Session Rubric”
- Student investigation reports from the “Development” section

**A Different Perspective**
For each student
- Student Activity, “A Look from a Different Perspective”
- Computer access to the LANL Web site or appropriate data printouts of Electron Spin Angle Distribution Plots
- Solar Wind Summary Plots from the LANL Web site

Note to teachers: This “at-a-glance” planning guide is the result of classroom pilot test data. Please contact us at genesisepo@mcrel.org with further suggestions for improving this guide to best meet you classroom needs.