

# Supporting Resources: Study of Place

## Supporting Resources:

### [Study of Place](#)

#### Teacher Background Information — *What the Teacher Might Want to Know*

The *Study of Place* Teacher Guide includes all the information teachers need to do the modules with their students, but often teachers appreciate having additional background information—*What the Teacher Might Want to Know*. Such additional content information is offered in the following PDFs:

- [Antarctic Exploration Teacher Background Science \(PDF\)](#)
- [Antarctic Exploration Teacher Background Science \(PDF, no images\)](#)
- [Ocean Currents Exploration Teacher Background Science \(PDF\)](#)
- [Ocean Currents Exploration Teacher Background Science \(PDF, no images\)](#)

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## Student Sheets

Some of the activities in Chapter 7 of *Study of Place* involve students in recording information where it's helpful to have a printout on which to write (e.g. drawing on a map). The following student sheets are optional, but helpful:

- Ocean Currents Exploration: Chapter 7: Exploring and Discovering: [Mapping the Sneakers' Journey Record Sheet](#)
- Ocean Currents Exploration: Chapter 7: Exploring and Discovering: [LEGOS® Spill Check for Understanding](#)
- Ocean Currents Exploration: Chapter 7: Looking Closer: [Formation of Gyres Record Sheet](#)

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## Online Resources

### Antarctic Exploration

#### Chapter 1

- [Article — On Ice: 100-year-old negatives discovered in Antarctic](#)

#### Chapter 2

- [MOVIE — Antarctic Sea Ice Change](#) (Movie is in the iBook; if you want to display it some other way, download and show this .mov file. Credit: Rice University, Department of Physics and Astronomy)
- [Excel Spreadsheet — Angle of the Sun in Two Locations](#) (May be helpful for graphing the sun angles; also includes example maximum sun angles for 42N.)
- Online Tool for Finding Sun Angles: [Sustainable By Design — SunPosition](#)

Basic Instructions:

- a. Click solar time and altitude.
- b. Enter your school's latitude.
- c. Select monthly, January 1, once a day, and 12:00.
- d. Click Calculate.
- e. Check the Output, recording the altitude data.

- Online Tool for Finding Sun Angles: [PVEducation.org — Sun Position Calculator](#)

Basic Instructions:

- a. Set Month (January), Day (1), Hour (12), and Latitude (your schools latitude).
- b. Record the altitude.
- c. Change the month, recording the altitude data for each.

#### Chapter 4

- [National Geographic Video: Antarctic Ice](#) — Short (2:31) video on climate change and the melting of the glaciers on the Antarctic Peninsula (may play an ad)
- [National Geographic Video: Chasing Antarctic Ice](#) — Short (2:39) video on using time-lapse cameras to look at climate change and receding glaciers in Antarctica (may play an ad)

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## Ocean Currents Exploration

### Chapter 7

- [Facebook Page — Lego Lost At Sea](#)