

How to Use the Discovery Channel School Masters

The following Discover Math in Your World features provide real-world problem solving:

- **Student book feature** in each chapter reinforces math taught up to that point in the book and ties to contexts in the Discovery Channel School Video Library;
- **Discovery Channel School Video Library segment** for each chapter includes pre-viewing and post-viewing questions;
- **Discovery Channel School Master** for each chapter provides still more real-world problem solving.

After showing the video segment for each chapter, use the Discovery Channel School Master to provide problem-solving opportunities on the same topic or on a related topic to the one found in the video segment. The masters can also be used without viewing the video segment.

In each master, students will use data given in text, in illustrations or captions, or in tables or charts to solve the problems. A Writing in Math question on each master asks students to solve a problem, then explain their thinking. You can have students complete the Discovery Channel School Master in school or at home.

A teacher support page is provided for each Discovery Channel School Master. Information on how to introduce the master and key information to point out to students before they begin is discussed.

Other features provided on the teacher support page include an answer key, a follow-up activity, one or two cross-curricular activities which relate to another content area and link to a math activity or a math problem, and for some masters—another interesting data-rich problem using additional data on the same topic.

Discovery Channel School Components

This chart provides information about the Discovery Channel School components and features provided with each chapter, and where these can be found.

Chapter	Lesson	Discovery Channel School Feature in Student Book	Discovery Channel School Video Segment	Discovery Channel School Master
Chapter 1 Place Value and Money	Lesson 1-7 Comparing Numbers, pp. 18–21	The Manu Biosphere Reserve in Peru, p. 2i	Segment 1 The Manu Biosphere Reserve	The Manu Biosphere Reserve, pp. 1–2
Chapter 2 Addition and Subtraction Number Sense	Lesson 2-11 Estimating Differences, pp. 98–101	Firefighters, p. 101	Segment 2 Firefighters	Firefighters, pp. 3–4
Chapter 3 Adding and Subtracting	Lesson 3-9 Subtracting Three-Digit Numbers, pp. 152–155	One Leaf at a Time, p. 155	Segment 3 Social Insects	Social Insects, pp. 5–6
Chapter 4 Time, Data, and Graphs	Lesson 4-7 Reading Pictographs and Bar Graphs, pp. 212–215	Snow Desert, p. 215	Segment 4 Polar Weather	Polar Weather, pp. 7–8
Chapter 5 Multiplication Concepts and Facts	Lesson 5-5 2 as a Factor, pp. 276–279	Reinventing the Wheel, p. 279	Segment 5 Skateboards	Skateboards, pp. 9–10
Chapter 6 More Multiplication Facts	Lesson 6-3 6 and 7 as Factors, pp. 320–323	No Bones About It, p. 323	Segment 6 Invertebrates	Invertebrates, pp. 11–12
Chapter 7 Division Concepts and Facts	Lesson 7-3 Writing Division Stories, pp. 374–377	The Tunnel, Chunnel p. 377	Segment 7 Tunnels	Tunnels, pp. 13–14
Chapter 8 Geometry and Measurement	Lesson 8-7 Triangles, pp. 450–453	It's in the Stars, p. 453	Segment 8 Pueblo Bonito	Pueblo Bonito, pp. 15–16
Chapter 9 Fractions and Measurement	Lesson 9-10 Mixed Numbers, pp. 522–525	Still Standing Tall, p. 525	Segment 9 Alexander the Great	Alexander the Great, pp. 17–18
Chapter 10 Decimals and Measurement	Lesson 10-4 Adding and Subtracting Decimals, pp. 572–575	Sun Up, p. 575	Segment 10 Meteorology	Meteorology, pp. 19–20
Chapter 11 Multiplying and Dividing Greater Numbers	Lesson 11-5 Multiplication and Arrays, pp. 626–629	Don't Work Too Hard, p. 629	Segment 11 Mummies	The Llama, pp. 21–22
Chapter 12 Measurement and Probability	Lesson 12-9 Probability, pp. 704–707	T. Rex the Terrible, p. 707	Segment 12 Fossils	Fossils, pp. 23–24