

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 1-5 Comparing and Ordering Numbers, pp. 16–19	A Colossal Achievement, p. 19	Segment 1 Life in Ancient Rome	Life in Ancient Rome, pp. 1–2
Chapter 2 Adding and Subtracting Whole Numbers and Money	Lesson 2-2 Mental Math: Subtracting, pp. 64–67	Volcano on a Plate, p. 67	Segment 2 The Earth's Surface	The Earth's Surface, pp. 3–4
Chapter 3 Multiplication and Division Concepts and Facts	Lesson 3-12 Writing and Evaluating Expressions, pp. 160–163	Age, Height, and Weight, p. 163	Segment 3 Natural Resources	Natural Resources, pp. 5–6
Chapter 4 Time, Data, and Graphs	Lesson 4-9 Graphing Ordered Pairs, pp. 212–215	Tug of Water, p. 215	Segment 4 Waves and Tides	Waves and Tides, pp. 7–8
Chapter 5 Multiplying by One-Digit Numbers	Lesson 5-5 Multiplying Two-Digit and One-Digit Numbers, pp. 270–273	It's All Up in the Air, p. 273	Segment 5 Hot Air Balloons	Hot Air Balloons, pp. 9–10
Chapter 6 Multiplying by Two-Digit Numbers	Lesson 6-5 Multiplying Two-Digit Numbers, pp. 332–335	One Fierce Lizard, p. 335	Segment 6 Komodo Dragons	Komodo Dragons, pp. 11–12
Chapter 7 Dividing	Lesson 7-5 Dividing Two-Digit Numbers, pp. 380–383	Not So Lone Wolves, p. 383	Segment 7 Wolves	Wolves, pp. 13–14
Chapter 8 Geometry and Measurement	Lesson 8-4 Triangles and Quadrilaterals, pp. 444–447	No Small Plans, p. 447	Segment 8 Skyscrapers	Skyscrapers, pp. 15–16
Chapter 9 Fraction Concepts	Lesson 9-3 Fractions, Length, and the Number Line, pp. 504–507	Big Green, p. 507	Segment 9 Coral Reefs	Coral Reefs, pp. 17–18
Chapter 10 Fraction Operations and Customary Measurement	Lesson 10-3 Adding Fractions With Unlike Denominators, pp. 568–571	Ocean Deep, p. 571	Segment 10 Oceans	Oceans, pp. 19–20
Chapter 11 Decimals and Metric Measurement	Lesson 11-1 Decimals and Fractions, pp. 624–627	Branch Out, p. 627	Segment 11 Trees	Trees, pp. 21–22
Chapter 12 Graphing and Probability	Lesson 12-5 Understanding Probability, pp. 700–703	Do You Have Enough Energy?, p. 703	Segment 12 Solar-Powered Cars	Solar-Powered Cars, pp. 23–24