



# EARTH SCIENCE EXPLORED

**STUDENT GUIDEBOOK**  
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## LESSON 1

# INTRODUCTION TO EARTH SCIENCE

*Get ready to take an exciting journey as we explore the Earth together — from the oceans, to the rocks, to weather patterns, to volcanos, to earthquakes, and more!*

### Vocabulary

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Compass Rose

Map Key/Legend

Map Title

Inset Map

Map Scale

Metric System

# OUTLINE & NOTES

## LESSON 1: INTRODUCTION TO EARTH SCIENCE

### I. The study of earth science includes:

- A. \_\_\_\_\_
- B. \_\_\_\_\_
- C. \_\_\_\_\_
- D. \_\_\_\_\_
- E. \_\_\_\_\_
- F. \_\_\_\_\_
- G. \_\_\_\_\_
- H. \_\_\_\_\_
- I. \_\_\_\_\_

**NOTES**

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### II. The Metric System

- A. A \_\_\_\_\_ system: the system is centered on the number \_\_\_\_\_
- B. 7 basic units in the metric system with \_\_\_\_\_
  1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
  6. \_\_\_\_\_
  7. \_\_\_\_\_
- C. If we move to the \_\_\_\_\_ of the \_\_\_\_\_, the units get \_\_\_\_\_
- D. If we move to the \_\_\_\_\_ of the \_\_\_\_\_, the units get \_\_\_\_\_
- E. When we measure \_\_\_\_\_, we use the base unit \_\_\_\_\_
- F. When we measure \_\_\_\_\_, we use the base unit \_\_\_\_\_
- G. When we measure \_\_\_\_\_, we use the base unit \_\_\_\_\_

### III. Maps

#### A. Parts of the map

1. Map scale: allows us to \_\_\_\_\_ a \_\_\_\_\_ on the \_\_\_\_\_ to \_\_\_\_\_ distances
2. Map title: tells you the \_\_\_\_\_ you're looking at and the \_\_\_\_\_ you're viewing
3. Compass rose: helps you \_\_\_\_\_
4. Map \_\_\_\_\_ or Map \_\_\_\_\_ : the part of the map that tells you what the \_\_\_\_\_ and \_\_\_\_\_ on the map mean
5. Inset map: shows an area of a map that's \_\_\_\_\_ of the area that will \_\_\_\_\_

#### B. Maps can help us learn about:

1. The \_\_\_\_\_ of the land
2. Where \_\_\_\_\_ are found
3. The \_\_\_\_\_ of different areas
4. Locations in the \_\_\_\_\_
5. How the \_\_\_\_\_ around the globe
6. Information about \_\_\_\_\_

## NOTES

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The page features a background of a topographic map with contour lines. The map is most prominent in the top-left corner, showing concentric lines that suggest elevation. The rest of the page is mostly blank white space.

## NOTES

A large rectangular area with a dashed border, containing numerous horizontal lines for writing.