



Earth's Layers

ESSENTIAL IDEA

Earth is made of different layers.

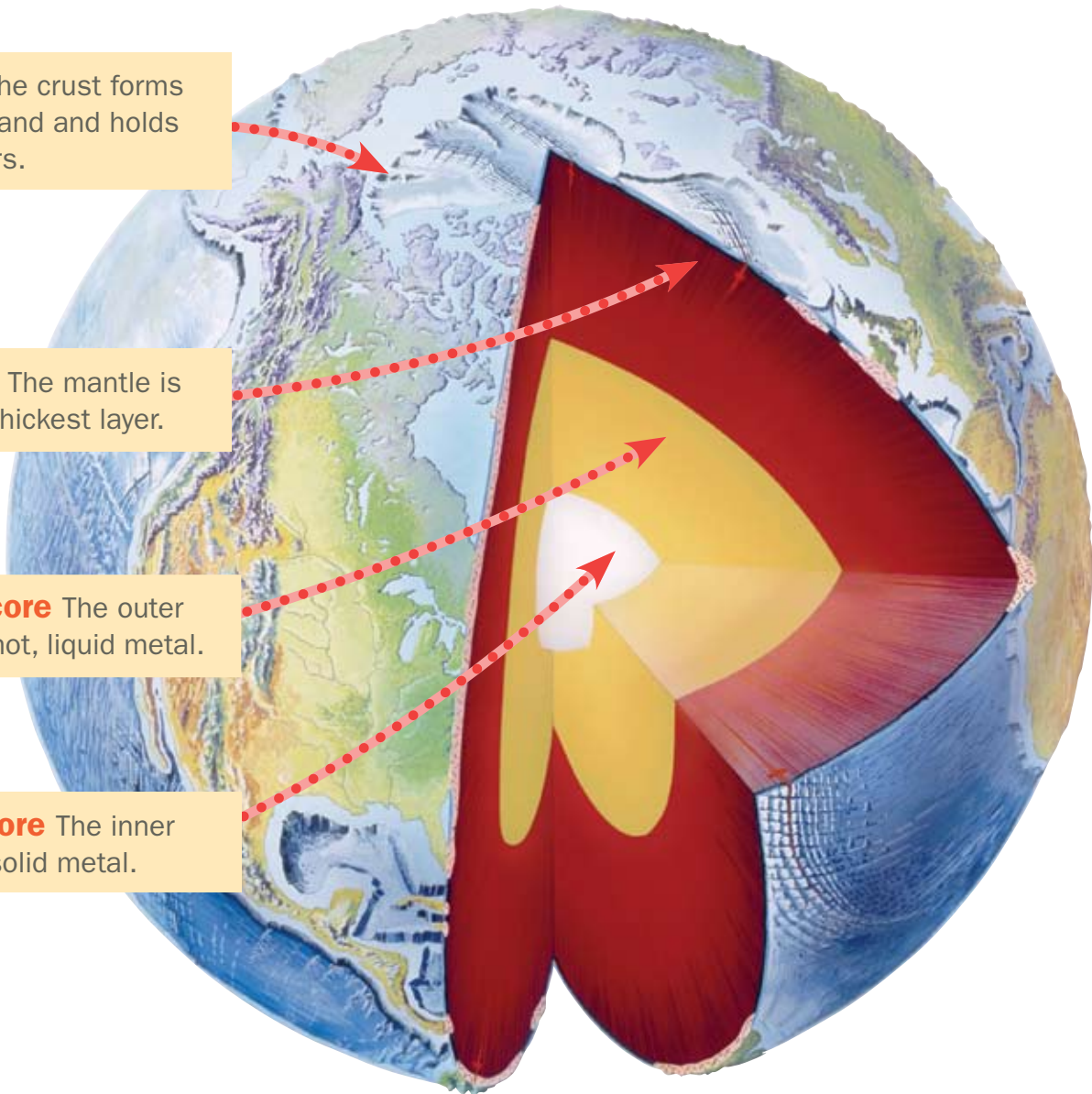
Earth is not the same the whole way through. It has different **layers**.

crust The crust forms Earth's land and holds its waters.

mantle The mantle is Earth's thickest layer.

outer core The outer core is hot, liquid metal.

inner core The inner core is solid metal.

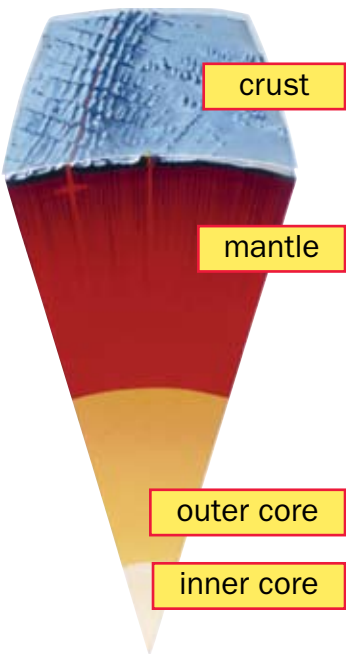


Earth's Layers

The **crust** is the rocks and soil that cover Earth. The crust forms the land. It also holds lake and ocean waters.

Under the crust is the **mantle**. Most of the mantle is solid rock. Some of the mantle is hot melted rock that flows like liquid.

Deep inside Earth is its core. The **outer core** is a pool of hot, liquid metal. The **inner core** is a hot, solid ball of metal.



What Makes Up Earth?

| Layer | Made of |
|------------|--------------------------|
| crust | rocks and soil |
| mantle | solid and melted rock |
| outer core | liquid metal |
| inner core | hot, solid ball of metal |

WHY IT MATTERS

You know living and nonliving things are on Earth's crust.



Prefixes

ESSENTIAL IDEA

Learning prefixes helps you read and understand new words.

A **prefix** is a group of letters that is added to the beginning of word parts. Two kinds of word parts are base words and roots.



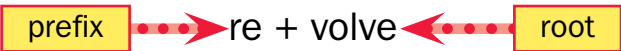
An aquarium holds living and **non**living things. The living and nonliving things **inter**act in the same habitat. An aquarium has important parts. A hood **en**clothes the tank. A filter cleans and **re**freshes the water all the time.

A **base word** is a word part that can be separated from the prefix.



Reheat has the base word *heat* and means “to heat again.” Adding the prefix *re*, meaning *again*, changes the meaning of the base word.

A **root** is a word part that is used to form other words. Roots are usually not words by themselves.



Revolve has the root *volv* and means “to turn again.”

Common Prefixes

Learning common prefixes can help you understand new words.

| prefix | meaning | example |
|--------|---------------|----------------------|
| non- | not | nonfiction |
| inter- | with, between | interact, interstate |
| en- | in | endanger |
| re- | again | relocate, regrow |

WHY IT MATTERS

- ▶ You can read and understand more words when you know the most common prefixes.
- ▶ Prefixes and roots are common in science words.