

## Code of the Roots Answer Key

1. **Geology** - the study of Earth
2. **Aqueduct** - a channel for carrying water
3. **Photograph** - an image made by light
4. **Chronology** - the order or study of time
5. **Biosphere** - the regions of life on Earth
6. **Thermometer** - a tool for measuring heat
7. **Microscope** - an instrument to see small things
8. **Telephone** - a device for hearing sound from far away
9. **Autograph** - a person's written signature
10. **Hydropower** - power made by water

### Teacher's Guide

- Begin by reviewing the meaning of common roots (geo, bio, micro, etc.).
- Model how combining roots creates new meanings ("photo" + "graph" → "light writing").
- Have students explain why each root fits the full word definition.

### Differentiation Ideas:

- Grades 4-6: Keep root clues visible and encourage oral discussion of each word's meaning.
- Grades 7-10: Remove the meaning hints and have students infer from context or prior knowledge.
- English Learners: Provide a mini visual chart linking each root to a picture (e.g., a globe for geo, a thermometer for *thermo*).

### Engagement and Extension:

- Encourage students to find one new word with each root during independent reading.
- Turn it into a game: give each group a new "root puzzle" to solve and share with the class.
- For writing practice, have students compose a short paragraph using at least three root-based words correctly in context.