**Unit 1 Light Travels**

**Translate the sentences.**

1. Light travels in a straight line. How do we know this?

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2. Turn on a flashlight. The light moves away from the flashlight.

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3. It moves in a straight line.

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4. When light hits a mirror, what happens to it?

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5. Does it keep going? Does it change direction?

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6. Let’s find out. You need a mirror, a flashlight, and a target.

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7. step 1. Put the target on the wall and shine the flashlight at it.

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8. step 2. Use the mirror to change the direction of the light.

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9. Make the light go toward the target.

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10. When light hits a mirror, it changes direction. This is called reflection.

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11. We can change the direction of the light by moving the mirror.

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12. Look around you.

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13. A bus driver uses her rearview mirror to see who is getting off the bus.

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14. She doesn’t need to turn her head.

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15. Where else can you see reflections every day?

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**Unit 2 Bus Driver**

**Translate the sentences.**

1. Tom and Jenny got on the bus.

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2. It was 7 p.m. and the bus was full of people.

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3. Tom said, “Wow, this bus is crowded!” “Yes, it is,” said Jenny.

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4. After a while, Tom said, “Jenny, do you think we can get off?

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5. I don’t think the bus driver can see us! There’re too many people!”

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6. Then Jenny said, “Don’t worry.

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7. The bus driver can see everything.

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8. There’s a rearview mirror at the front of the bus.

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9. The driver can look in it and open the doors.”

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10. Tom said, “I don’t know why I was worried. Look! This is our stop.”

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**Unit 3 The Water Cycle**

**Translate the sentences.**

1. Water is always changing. It is always moving.

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2. But the total amount of water on Earth never changes.

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3. Rain falls from a cloud into a river. It evaporates into the air.

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4. It condenses into a cloud. Rain falls from a cloud again.

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5. This is the water cycle. Let’s watch and see.

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6. step 1. Put a clear plastic cup filled with ice in a zipper bag.

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7. Seal the bag and weigh it. Put the bag next to a sunny window.

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8. step 2. Day 1: The ice in the cup melts, and water drops from the cup into the zipper bag.

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9. step 3. Days 2 and 3: The amount of water inside the cup decreases, and the amount of water outside the cup increases.

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10. step 4. Weigh the bag again. What do you notice?

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11. The water left the cup. But it didn’t leave the bag. The weight didn’t change.

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12. Why? Because the total amount of water in the bag did not change.

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13. The total amount of water on Earth doesn’t change, either.

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14. Water can be rain. It can be ice or a cloud. But it’s always the same water.

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**Unit 4 Disappeared Water**

**Translate the sentences.**

1. Kate left a glass of water by the window.

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2. She went on vacation and forgot all about it.

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3. One week later, she came home and looked at the glass again.

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4. Half the water was gone!

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5. “Mom! No one was home, but my water is gone! Who drank it?”

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6. “Nobody drank it, Kate. The water evaporated.

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7. It became water vapor in the air. Do you see the clouds in the sky?

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8. Water vapor goes up high in the sky and becomes a cloud.

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9. Then it turns into water again.”

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10. Kate said, “Then it falls from the sky as rain!”

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11. “That’s right! The water from your cup evaporated and became a cloud.”

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12. “Wow, so the water in my cup will be rain?”

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13. “Yes, that’s right.”

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14. “Water is so cool!”

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**Unit 5 A Raft of Straws**

**Translate the sentences.**

1. A straw floats in water, but a coin sinks. How can we make a coin float in water?

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2. We can put it on a straw raft. How can we make this raft?

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3. Let’s try to design it. We can see who makes the strongest raft.

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4. step 1. Draw a blueprint of your raft on paper.

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5. step 2. Make the raft using five straws, scissors, and a glue gun.

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6. step 3. Place coins, one at a time, on the raft.

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7. See how many coins make the raft sink.

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8. step 4. Design a new, better raft. Whose raft can hold the most weight?

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9. Buoyancy is a force in water. This force pushes things upward in the water.

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10. It makes them float or sink. Put an object in the water.

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11. When an object has high buoyancy, it floats.

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12. When an object has low buoyancy, it sinks.

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13. A coin is heavy. It has low buoyancy, so it sinks.

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14. The straw raft is light. It has high buoyancy, so it floats.

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15. Put lots of coins on the raft. Now the raft is heavy. It sinks!

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**Unit 6 How Does a Ship Float?**

**Translate the sentences.**

1. Clara and Brian went to the beach. They saw a big ship in the water.

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2. Brian said, “Clara, how can that big ship float?”

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3. “I don’t know. Let’s check on the Internet.”

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4. They searched for how boats float.

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5. Brian said, “It says it’s because the force of water pushes the ship up. It’s called buoyancy.”

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6. “Yes, that’s right,” said Clara. “My smartphone says this, too.

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7. The big ship has lots of air in it. The ship is made of heavy iron.

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8. But the air makes it lighter.

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9. The iron and air are lighter than the water. So the ship floats!”

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10. “Oh, I see!” said Brian. “That’s how that huge ship can float on water.”

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**Unit 7 Ice Fishing**

**Translate the sentences.**

1. Do you see people spraying things on the road, street, or stairs after heavy snow?

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2. They are melting the ice. People use salt and other ingredients to melt the ice.

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3. What happens when ice is mixed with salt? Let’s find out.

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4. step 1. Put some ice cubes in a cup filled with water.

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5. step 2. Place a string across the ice cubes.

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6. Make sure the string touches every ice cube.

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7. step 3. Sprinkle some salt on the ice and the string.

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8. step 4. Wait for a minute. Gently pull the string out of the cup and see what has happened.

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9. step 5. The ice and the string were separate before. Now the ice is stuck to the string!

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10. Why is this? The secret is the salt.

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11. Water usually freezes at zero degrees Celsius.

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12. But salt lowers the freezing point of the water.

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13. The ice touching the salt becomes water.

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14. Then the ice cubes cool down the water around them, and freeze it again.

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15. The string gets frozen, too. It sticks to the ice.

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**Unit 8 Frozen**

**Translate the sentences.**

1. It was a cold winter day.

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2. Anna was on her way to her aunt’s house. Her mom was driving.

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3. They drove past a river. Anna looked out of the window and said,

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4. “Mom, look at that! The river is frozen solid!”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Her mom said, “The weather must be very cold. Even the river froze.”

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6. Anna said, “Does the sea freeze on a cold day like today?

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7. I haven’t seen a frozen sea before.”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_8. “Not on a day like today,” her mom replied.

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9. “The sea freezes in much colder weather.”

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10. Anna asked, “Why is that?” “Because there is salt in sea water.”

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11. “Oh, I learned about that in school. Salt lowers the freezing point of water.

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12. So, does the sea freeze in much colder weather?” “That’s right, Anna!”

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**Unit 9 The Power of Pulleys**

**Translate the sentences.**

1. Try to pick up your sofa at home. It’s too heavy. You can’t lift it.

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2. What could you use to lift it? You could use a pulley.

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3. A pulley uses ropes and wheels to lift things.

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4. With one, you can lift very heavy things.

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5. Can we design and make our own pulley?

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6. Let’s make one and see how much weight it can lift.

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7. step 1. Poke three holes (near the top of the open end of the cup) in a clear cup.

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8. Cut wool yarn into three pieces of the same length.

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9. step 2. Tie the ends of the wool yarn through the holes in the cup.

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10. Tie the loose ends of the wool yarn together.

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11. Tie the three pieces of yarn to a long piece of yarn.

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12. step 3. Tape the other end of the long yarn onto an empty roll.

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13. step 4. Wrap the wool yarn around the empty roll.

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14. step 5. Slide a chopstick through the roll.

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15. step 6. Put small objects in the cup and turn the chopstick to lift them.

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16. A pulley is a simple machine that makes lifting heavy objects easier.

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17. It distributes weight to reduce the amount of force it takes to lift something up.

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18. Where can we see people use a pulley?

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**Unit 10 Inventions of the Past**

**Translate the sentences.**

1. Matthew went on a school trip to a Korean fortress.

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2. The fortress was built 200 years ago. It was made of heavy rocks.

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3. “But they didn’t have electricity. They didn’t have big metal machines.

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4. How did they build it?” asked Matthew.

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5. “They used the Geojunggi. It’s a special machine. It easily lifts heavy things.”

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6. “How does it work?”

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7. “It uses pulleys. They make lifting easy.

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8. Tie an object to the rope. The rope goes through many wheels.

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9. Each wheel carries some of the object’s weight.

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10. The more wheels there are, the less force you need to use.”

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11. “People were so clever back then!”

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**Unit 11 A Volcanic Eruption**

**Translate the sentences.**

1. There are rocks deep inside Earth. It’s very hot inside Earth.

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2. This makes rocks melt. Molten rock is called magma.

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3. There is magma inside a volcano.

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4. When volcanoes erupt, the molten rock comes out. We call it lava.

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5. Lava is very hot. It’s very dangerous.

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6. It breaks things around it. But it also makes things.

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7. Lava cools down and becomes hard. It makes islands and new land.

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8. Let’s make a mini volcano and watch it erupt.

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9. step 1. Put 50 g of baking soda in a plastic bottle.

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10. step 2. Add three to four drops of red food coloring and about ten drops of kitchen detergent.

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11. step 3. Close the bottle and shake it to mix the contents well.

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12. step 4. Place the plastic bottle on a large plate.

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13. Make a volcano around the bottle using clay.

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14. step 5. When the volcano is formed, open the lid of the bottle.

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15. step 6. Pour vinegar in the volcano crater and observe what happens.

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16. Fake lava came out of our model volcano. It looked real!

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17. There are volcanoes all over the world.

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18. Is there one in your country?

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**Unit 12 Volcanoes: Good or Bad?**

**Translate the sentences.**

1. Ka-boom! Liam watches the news.

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2. A volcano is erupting in another country. He is worried.

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3. Liam says, “Dad, are we in danger?”

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4. “Don’t worry, we’re safe here.”

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5. “But volcanoes are so dangerous. They cause fire and ash.”

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6. “They are dangerous,” Dad says, “but they are not all bad.

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7. Volcanoes create islands. We went to Hawaii last year.

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8. Hawaii was made by volcanoes.”

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9. “That’s cool!” says Liam. “What else can volcanoes do?”

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10. “Well, hot magma under the surface heats up water.

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11. It makes hot springs that we can visit.

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12. It makes water vapor, too.

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13. We can turn this water vapor into electricity.”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. “Volcanoes are amazing!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. Can we go to a hot spring this weekend?”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 13 The Faults in Our Earth**

**Translate the sentences.**

1. The surface of Earth is called the crust.

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2. It is like a puzzle made up of about twenty puzzle pieces.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. These pieces are always moving.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. But they move very slowly. We can’t feel them move.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. When one of these pieces slides past another piece, Earth’s surface cracks.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. This is called a fault. There are faults all over the world.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Let’s see how they are made.

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8. step 1. Hold three books together with their spines facing up. Place them on a desk.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. step 2. Slide the books so that the book in the middle moves away from you.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. step 3. Slide the books again. This time, make the book in the middle slide toward you.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. step 4. Put the three books in a line.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Lift them up and relax your hands so the book in the middle falls.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. The surface of Earth is like these books.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. When we moved the books, the “crust” broke. We made a fault.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. Earthquakes happen at faults.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 14 Earthquake Safety**

**Translate the sentences.**

1. “Dad, what was that? The desk just shook!”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. Dad ran over to Dina. He grabbed her hand and took her under the kitchen table.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. He checked his phone for some news reports.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. “What’s happening?” asked Dina.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. “It’s an earthquake. It’s very dangerous.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. It can make buildings fall down. It can hurt people, too.”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. “What should we do? Will we be okay?” Dina asked.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. “Don’t worry. When things start shaking, get under the table like we did.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. It might get worse. If it does, we should turn off the power and the gas.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. We should leave our house.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. Use the stairs. Don’t use the elevator. Cover your head.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Go out to an open space like a field or a park.”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. “Don’t worry, Dad! I know we’ll be okay.”

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 15 Machines All Around**

**Translate the sentences.**

1. Machines help us in our everyday lives.

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2. They can be big or small, simple or complicated.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. A clock and a plane are both machines.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Even the zipper on your pants is a simple machine!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Mechanical engineers work with machines.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. They think of new machines and make old ones work better.

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7. These machines make our lives easier.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Mechanical engineers work in many industries.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. They make cars, planes, computers, and even robots!

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10. They do so many different things!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. They design, build, and test new machines.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Turn on a light switch. Take a glass of cold milk from the fridge.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. Say thank you to a mechanical engineer!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 16 Underwater Explorers**

**Translate the sentences.**

1. It’s important to understand the past.

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2. The past can help us understand the future.

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3. Archaeologists look all over Earth.

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4. They dig in the ground to learn about our past.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. They find pots, walls, and bones. They study and learn from them.

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6. But over 70 percent of Earth’s surface is covered with water.

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7. Do people look for items underwater?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. Yes, underwater archaeologists do.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. They swim deep in the water. They swim in rivers and lakes.

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10. They even swim deep in the sea!

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

11. They find ships, bridges, and even houses underwater.

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12. These objects can teach us about people who lived long ago.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_