

Class

Name

## Unit 1 What's the Temperature?

Unscramble the sentences. Then rewrite them correctly.

1. when it is / cold. / tell us / Thermometers / hot or

---

2. the exact / tell us / They / temperature.      in our / them / daily lives. / We  
use

---

3. do they / How / work?      Can we / make / our / own thermometer?

---

4. a thermometer / materials. / Let's make / with everyday

---

5. into a small bottle / drops of / Step 1. Pour water / and add a few / food  
coloring.

---

6. hole / a small / Step 2. Poke / in the lid.

---

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7. the / Step 3. Close / lid.    so it / through the hole / touches the water. / Put  
the straw                with / it / Seal / clay.

---

---

8. on a piece of paper / on the straw. / horizontal lines / Step 4. Draw / and  
put it

---

9. we / What / see? / did

---

10. was warm, / went up / When the temperature / inside the straw. / the  
water

---

11. the water / was cold, / When the temperature / into the bottle. / went  
down

---

12. How / work? / does it    when they meet / Liquids / something warm. /  
increase

---

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13. The water / the straw. / moves up

---

14. when it meets / Water / decreases / something cold.

---

15. moves / the straw. / So, it / down

---

16. showed us / in temperature. / the change / The thermometer

---

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## Unit 2 James Feels Hot

Unscramble the sentences. Then rewrite them correctly.

1. coughs. / James      sick. / feels / He

---

2. my forehead / hot!" he / "Mom, / is too / says.

---

3. out of / takes / a drawer. / Mom / a thermometer

---

4. She / temperature. / his / checks      normal. / It's

---

5. seem / says. / "You / okay," she

---

6. looks at / James / the thermometer.      what's the / inside?" / red stuff /  
"Mom,

---

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7. "It's / Mom / alcohol. / says, up and down / Alcohol changes / so it goes / its volume, / quickly.

---

8. For this reason, / thermometers. / used in / alcohol is

---

9. many / thermometers. / kinds of / There are

---

10. temperature. / measures / This one / your body

---

11. use one / I also / for cooking. / in the kitchen

---

12. thermometers in botanical / hospitals / There are / gardens and / as well!"

---

13. any more / "Wow. Do / at home?" / we have / thermometers

---

14. and / go / "Let's / see!"

---

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## Unit 3 Melting Points

**Unscramble the sentences. Then rewrite them correctly.**

1. cold. / very / It was                      Mark went to / the movie / Mandy and / theater.

2. the movie / went out. / When / finished, they

3. didn't / on the street / Mandy. / "The ice / melt!" said

4. got home, / some ice / Mark put / in a glass of water. / When they

5. in five / melted / It / minutes!

6. Does ice / different speed / in different liquids? / melt at a

7. and water / cola, milk, / Step 1. Pour / different bowls. / into

8. at the / Put an / in each bowl / same time. / ice cube

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9. to melt / Step 2. See how / for the ice / in each bowl. / long it takes

---

10. first in water, / The ice melts / and then in milk. / then in cola, / in this order:

---

11. fastest in / pure / Ice melts / water. melts / in milk. / slowest / But ice

---

12. changes to / is the temperature / The melting point / when a solid / a liquid.

---

13. other liquids. / is higher / of water / than the / The melting point

---

14. is / Water / substance. / a pure

---

15. lower / Mixtures have / substances. / than pure / melting points

---

16. ice melts / in water./ That is why / the fastest

---

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## Unit 4 The Case of the Disappearing Snowman

Unscramble the sentences. Then rewrite them correctly.

1. early / woke up / on Christmas morning. / Emma      Snow / everywhere!  
/ was

---

2. "Dad, let's / she said. / a snowman!" / make

---

3. went to / for a / Then she / her grandparents' / tasty meal.

---

4. came / That evening, / home. / they

---

5. ran away! / "Dad, / it?" / the snowman / Where is

---

6. warm / "It was / said her dad. / today,"      snow / melted. / "The

---

7. was below / Last night, / Celsius. / the temperature / zero degrees

---



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8. vapor / The water / froze. / in the air

---

9. and fell / It turned / from the clouds. / to snow

---

10. was / Today, / warm. / the temperature

---

11. more than / Celsius. / It was / zero degrees

---

12. So / melted. / the snow      Celsius is / of water./ the melting point /  
Zero degrees

---

13. the water / Look, can / where your / you see / snowman was?"

---

14. next time / "I see it! Can we / it snows?"/ a snowman / make

---

15. some / who wants / "Of course! Now, / ice cream?"

---

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## Unit 5 Wet and Dry

**Unscramble the sentences. Then rewrite them correctly.**

1. what / is? / high humidity / Do you know

2. a lot of / It's when / in the air. / there is / water vapor

3. you sweat / When it's / a lot. / hot and humid,

4. your body. / The sweat / on / stays      feel / You / hotter.

5. your clothes / When / and humid, / get wet. / it's cold

6. them, / colder. / When cold wind / you feel / blows on

7. how / Let's see / works. / humidity

make / a hygrometer. / Let's

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8. an arrow / a straw. / Step 1. Make / out of          a hole / Make / in the arrow.

---

9. than / It should be / of a pin. / the size / slightly larger

---

10. to the bottom / and pin it / of cardboard. / through the hole, / of a thick piece / Step 2. Put a pin

---

---

11. a long / Step 3. Take / hair.          to the top / Stick one end / cardboard. / of the

---

12. end / the other / Stick / to the arrow.

---

13. and blow / Step 4. Take / on the hair. / hot air / a hairdryer

---

14. with a / in a bag / Step 5. Now, put / wet sponge. / the hygrometer

---

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15. the bag / and wait. / Close

---

16. on the hair, / When we used / it got shorter, and / the hairdryer / the arrow moved.

---

17. in the bag, / the other way. / the hygrometer / the arrow moved / When we put / the hair got longer, and

---

18. this / did / happen? / Why the air / around the hair. / dried out / The hairdryer

---

19. made / It / shrink. / the hair

---

20. when it's / hair expands / humid. / In contrast, / wet or

---

21. hair / can even / Humidity / curly! / make your

---

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## Unit 6 Hot and Humid

**Unscramble the sentences. Then rewrite them correctly.**

1. yesterday, / it's sunny. / It rained / but today / all day

---

2. with / Mia goes / her mom. / to the park      hot / really / It's / and sticky.

---

3. today is / Mom says, / and humid." / really hot / "The weather

---

4. What's / asks. / "Humid? / that?" Mia

---

5. water vapor / "Humidity is / in the air. / there is / how much

---

6. water vapor / a lot of / High humidity means / in the air. / there is

---

7. water vapor / Low humidity / there is little / in the air. / means

---

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8. like today, / When the humidity / you feel / hotter. / is too high,

---

9. sweat / more. / You                      quickly!" / And food / goes bad

---

10. high humidity / "So / asks Mia. / is harmful?"

---

11. at / "Not / all.                      is too low, / is dry. / When / the air / the humidity

---

12. and eyes. / dries / It / your skin                      can be / to breathe." / hard / It

---

13. humid / it's too / "Well, / today.                      Let's / Mia. / says / go home,"

---

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## Unit 7 Heat Transfer

**Unscramble the sentences. Then rewrite them correctly.**

1. a spoon / Leave / in a / of soup. / hot pot

---

2. touch it / the spoon / When you / later, / is hot!

---

3. wasn't inside / But the / the soup. / spoon handle

---

4. hot? / Why / get / did it                      the spoon. / Heat / moved up

---

5. a solid material, / When you / gets hotter. / heat part of / that part

---

6. the rest / moves to / of the object. / Then the heat

---

7. gets hot / object / The whole / over time.

---

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8. Heat moves / materials. / solid / through      called / This is / "conduction."

---

9. watch / it happen. / Let's    so be / involves fire, / careful. / This experiment

---

10. sheets. / three different / copper / Step 1. Prepare

---

11. labels to the / Step 2. Attach / copper sheets. / three different /  
thermochromic adhesive

---

12. on the labels. / each copper sheet / the color change / and observe / a  
corner of / Step 3. Heat

---

13. when heating / the direction / Step 4. Draw / the copper sheets. / the  
color changes

---



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14. to change color / The first part / of the sheet / near the fire. / is the part

---

15. Then / changes. / of it / the rest

---

16. Heat transfers / to a low / temperature. / high temperature / from a

---

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## Unit 8 Insulating Ice

**Unscramble the sentences. Then rewrite them correctly.**

1. saw a picture / in a magazine. / Danny / of an igloo

---

2. A house / "Wow, Mom, look! / ice! / made of      isn't it / in there?" / But / cold

---

3. not / "No, / at all.      cold / The house / ice. / is made of

---

4. But / because of / it isn't / insulation!" / cold inside

---

5. escaping from / or a place. / stops heat / "Insulation / an object

---

6. on a / Put a lid / of tea. / hot cup      stays hotter / for longer. / The tea

---

7. Wear / in winter. / a jacket      near / stays / Hot air / your body."

---

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8. the windows / "Oh, that's why / in winter! / to close / you tell me

---

9. the hot air / house." / To keep / in the

---

10. warm." / "I'm glad that / can stay / even people / at the North Pole

---

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## Unit 9 Dissolving Substances

**Unscramble the sentences. Then rewrite them correctly.**

1. Put / tea. / in your / sugar      in your / Put salt / soup.

2. the liquid. / They / with / mix      disappear. / They / seem to

3. see them, / and the salt / You can't / are still there. / but the sugar

4. the tea. / Drink / sweet. / It tastes      It / Try the / tastes salty. / soup.

5. with / The sugar / mixed / the liquids. / and the salt

6. we call this / mixes with / another substance, / "dissolution." / a substance /  
When

7. in a / Step 1. Pour / beaker. / water      on an / Put the beaker / electronic  
scale.

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8. a sugar cube / on the scale, / Step 2. Put / too. Weigh / together. / them

---

9. put the sugar cube / and dissolve / Step 3. Now, / it completely / in the water. / in the beaker

---

---

10. the beaker / again. / Step 4. Weigh

---

11. of the beaker / The weight / change. / doesn't

---

12. before and after / the same / sugar cube / It is / in it. / dissolving the

---

13. is still / The sugar / in the water. / cube

---

14. It dissolved in the water. It mixed with the water.

---

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## Unit 10 Solvents and Solutes

Unscramble the sentences. Then rewrite them correctly.

1. her at home. / Today, / of Lisa's mom / some friends / came to visit

---

2. drank / coffee. / cookies and/ They ate

---

3. in her / put sugar cubes / bitter coffee. / Lisa's mom

---

4. The sugar / disappeared! / completely

---

5. what happened, / was busy / Lisa wanted / but her mom / to ask / talking.

---

6. So Lisa / online. / looked

---

7. didn't / disappear. / "Oh, / the sugar                      just / It / dissolved.

---

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8. It got / mixed into / the coffee. / and it / very small,

---

9. is much / Now / sweeter!" / mom's coffee

---

10. substances that dissolve / are called / "solute." / in other substances / Lisa saw that

---

11. Sugar and / solute. / are / salt

---

12. they dissolve in / The substance / a "solvent." / is called

---

13. solvents. / Water / are / and coffee

---

14. you can taste salt / pour it / That's why / on your food. / when you

---

15. it. / But / see / you can't

---

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16. some substances / Then / together. / Lisa mixed

---

17. milk. / Sugar / in / dissolved

---

18. everything / But not / worked.      Water / oil! / dissolve in / didn't

---



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## Unit 11 All the Stars in the Sky

**Unscramble the sentences. Then rewrite them correctly.**

1. various stars / sky. / There are / in the night

---

2. recognizable shapes / People group / called constellations. / together into / the bright stars

---

3. them / people or / Some of / animals. / look like

---

4. and see / at home. / Let's make / a light box / the constellations

---

5. a map / of the stars. / Step 1. Look at

---

6. in the lid / to match / one constellation. / of a box / Make holes

---

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7. of the box. / Step 2. Make / in the bottom / a large hole

---

8. in the / hole. / a flashlight / Put

---

9. your friends / Step 3. Show / that you made. / light box / the constellation

---

10. or the walls, / shine the flashlight / and enjoy / the constellation show. / at  
the ceiling / a dark room, / Go to

---

11. are different / and winter. / Constellations / in summer

---

12. around / This is / the sun. / Earth moves / because

---

13. see different / As Earth / we can / stars. / space, / moves in

---

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## Unit 12 Orion and the Big Dipper

**Unscramble the sentences. Then rewrite them correctly.**

1. with / went camping / his dad. / Ryan

---

2. around the / They sat / campfire / at night.

---

3. Ryan / night sky. / looked up / at the

---

4. in the sky. / so many / Wow! There / stars / were

---

5. that many / couldn't see / Ryan / in the city.

---

6. fog, lights, / buildings / hid the stars. / and tall / In the city,

---

7. Dad / to the sky. / pointed      There's / "Look! / Orion!"

---

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8. "Orion is / a real man. / but not / a man,      constellation. / It's / a

---

9. That's / stars that / something. / looks like / a group of

---

10. Orion in the / here. / to spot / It's easy / winter sky

---

11. three stars / like a belt." / that look / Just look for

---

12. can / Orion. / see / "I      there / Are / more?" / any

---

13. more. Look / over there. / "Many      That one / a ladle. / like / looks

---

14. the Big / called / It's / Dipper."

---

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## Unit 13 Water in the Air

**Unscramble the sentences. Then rewrite them correctly.**

1. outside / early / Go / in the morning.

2. on the grass / Can you / of water / or leaves? / see drops

3. drops are / These / dew. / called

4. close to the ground, / thick clouds / making it / There are / difficult to see. /  
low and

5. That's / fog. / called          are / Fog / and dew / different.

6. are made / in the air. / by water / But both

7. or branches. / Dew forms / cold leaves / meets / when water vapor

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8. and the water vapor / the air cools down, / condenses. / Then, / in the air

---

9. watch / happen. / Let's / it

---

10. with water / Step 1. Fill / and ice cubes. / 2/3 of a jar

---

11. the surface / Step 2. Wipe / of the jar / towel. / with a dry

---

12. on the surface / Then, / observe / of the jar. / the changes

---

13. condenses. / The vapor / the jar / outside

---

14. on the surface / It forms / of the cold jar. / water drops

---

15. Fog / as well. / water vapor / forms from

---

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16. to warm / the jar / Step 1. Fill up / it up. / with warm water

---

17. pour out / the water. / Then

---

18. a lit / Step 2. Put / incense stick / for a minute. / into the jar  
take / it / out. / Then,

---

19. of the jar. / a dish with / Step 3. Place / on top / ice cubes  
See / happens. / what

---

20. cools / The ice / water vapor. / the warm

---

20. fog inside / the jar. / condenses, and / The water vapor / it makes

---

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## Unit 14 Steaming Hot Soup

Unscramble the sentences. Then rewrite them correctly.

1. very / Kevin / hungry. / is      Dad made / for dinner. / carrot soup

2. and starts / on the table / to eat. / the hot bowls / Dad puts

3. Kevin / laughing. / starts      funny?" asks / "What's / his / dad.

4. "Your / foggy! / glasses / are      look / Grandfather!" / You / like

5. dad / laughs. / Kevin's      the steam," / because of / "That's / he says.

6. from the soup, / comes out / "Hot water vapor / hits my / cold glasses. / and  
it

7. cools down / The vapor / turns to / liquid." / quickly and



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8. Kevin / shower. / his morning / thinks about

---

9. when I have / steams up / "That's why / a shower!" / the mirror

---

10. says / "Yes! / Dad. / That's right,"

---

11. before it / eat your soup / cools down." / "Now

---

12. get home / when you / Look for steam / today. / around you

---

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## Unit 15 Aerospace Engineers

Unscramble the sentences. Then rewrite them correctly.

1. Do you / the Wright / brothers? / know about

---

2. invented / in 1903. / the first / The Wright brothers / airplane

---

3. flew for / It only / 12 seconds!    just / It / 36 meters. / flew

---

4. planes can / America. / Asia to / Now, / fly from

---

5. They can / non-stop. / 21 hours / fly for    fly over / Planes can / 15,000 km!

---

6. planes / Who / made / better?    did. / Aerospace / engineers

---

7. They / better / designing / planes. / keep

---

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8. faster, quieter, / They make / and safer. / planes

---

9. planes / from better / They make / materials.

---

10. shapes. / They / better / think of

---

11. They / the environment. / better for / planes / make

---

12. engineers / Aerospace / design / don't just / planes.

---

13. drones and / They / design / helicopters.

---

14. satellites and / They even / space rockets. / in space, like / that can travel  
/ design things

---

---

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15. to visit / Would you like / a rocket / the universe? / the rest of / to design

---

16. an / Become / engineer! / aerospace

---

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## Unit 16 3D Printing

**Unscramble the sentences. Then rewrite them correctly.**

1. We can / photos. / print                      print / can / We / books.

2. can print / 3D printers / we can / imagine. / anything

3. Special / print food! / can even / 3D printers

4. computer. / on your / Install / software / special

5. Design / you / anything / want.

6. the design / Your computer / to the / delivers / 3D printer.

7. all / The printer / moves in / directions.                      real. / makes / It / your design

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8. the first / designed / 40 years ago. / 3D printers / Mechanical engineers

---

9. be very / The printers / very expensive. / big and / used to

---

10. couldn't / many things. / They / print

---

11. they are / Now / and they / are cheaper. / smaller

---

12. print more / They can / things. / and more

---

13. can make / hearts. / artificial 3D-printed / Doctors

---

14. 3D-print / Artists / can / their art.      your own / print / You can / toys.

---

15. thanks to / We can / 3D printers! / anything we like / print

---