تم تحميل هذا الملف من موقع المناهج الإماراتية





تجميعة أسئلة وفق الهيكل الوزاري منهج انسباير

موقع المناهج ← المناهج الإماراتية ← الصف السادس ← علوم ← الفصل الأول ← ملفات متنوعة ← الملف

تاريخ إضافة الملف على موقع المناهج: 31-10-2024 17:47:37

ملفات اكتب للمعلم اكتب للطالب ا اختبارات الكترونية ا اختبارات ا حلول ا عروض بوربوينت ا أوراق عمل منهج انجليزي ا ملخصات وتقارير ا مذكرات وبنوك ا الامتحان النهائي ا للمدرس

المزيد من مادة | علوم:

التواصل الاجتماعي بحسب الصف السادس











صفحة المناهج الإماراتية على فيسببوك

5

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف السادس والمادة علوم في الفصل الأول الهيكل الوزاري الجديد المسار العام منهج انسباير الختبار القياس الدولي IBT متبوع بالإجابات حل مراجعة الدرس الثاني surface s'earth on Water منهج انسباير مراجعة الدرس الثاني surface s'earth on Water منهج انسباير

حل مراجعة الوحدة الأولى منهج انسباير

Grade 6 General Science EOT1 Practice Questions

No.	Example
1	ENGINEERING Connection Investigate how thermometers use thermal contraction and thermal expansion to measure temperature.
2	
	COLLECT EVIDENCE How could models of the particles in the wood and metal blocks show why one felt colder than the other?
3	 4. Which statement best describes what is taking place in the images? A The kinetic energy of the particles on the right is the greatest of the three images of particles. B The particles in the middle have more kinetic energy than the particles on the right. C The particles in the middle have less space between them than the particles on the left, which means they have more kinetic energy. D Energy was added to the particles on the left to give them more energy than the particles in the middle.
4	EXPLAIN THE PHENOMENON Kitchenware is made of many different types of materials. Have you ever thought about how those different materials transfer thermal energy? Use your ideas about kitchenware to make a claim about what affects how a material transfers thermal energy.

LESSON 2 LAUNCH



What's the Difference?



Five friends were talking about the differences among solids, liquids, and gases. They each agreed that the differences have to do with the particles in each type of matter. However, they disagreed about which differences determine whether the matter is a solid, liquid, or gas. This is what they said:

Gwyneth: I think it has to do with the number of particles.

George: I think it has to do with the shape of the particles.

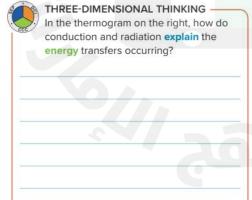
Hoda: I think it has to do with the size of the particles.

Natalie: I think it has to do with the movement of the particles.

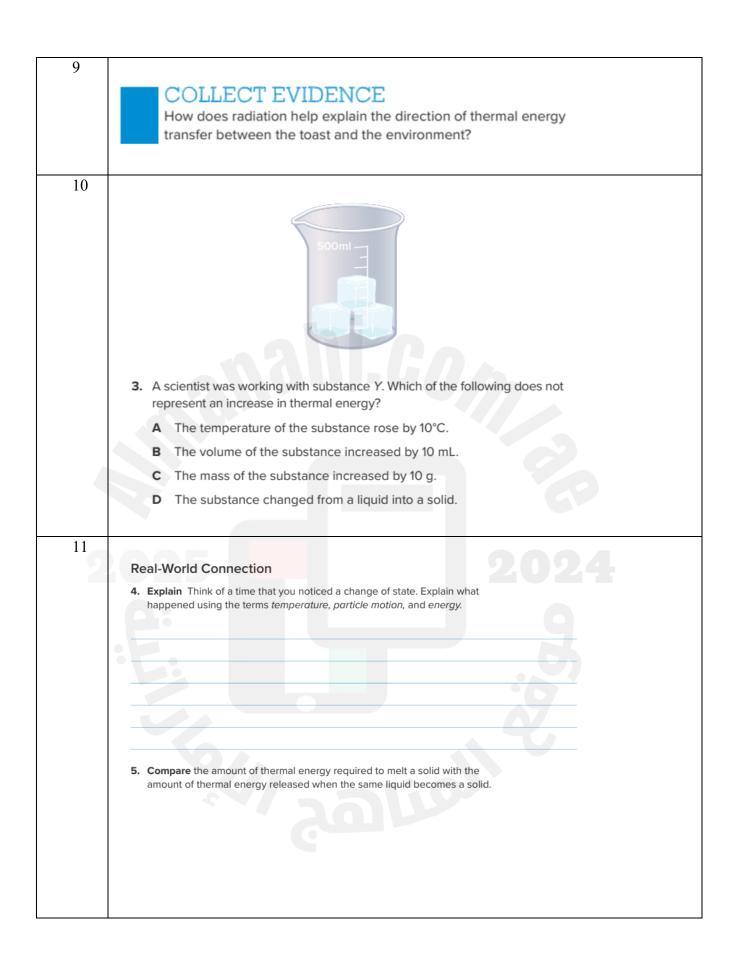
William: I think it has to do with how hard or soft the particles are.

With whom do you agree most? _ you agree with that friend. Explain why

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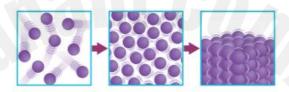


Three-Dimensional Thinking

Some students want to demonstrate thermal expansion. They devise the following method: A large black balloon is taken to a shady area and filled with cool air. The balloon is then taken to a bright, sunny location. After a short time, the balloon begins to expand.

- 3. What explanation does this investigation verify?
 - A A balloon filled with cool air will rise into the atmosphere.
 - B As particles gain energy, the material takes up more space.
 - C The air inside the balloon lost energy.
 - D The sunlight caused the air in the balloon to contract.

Examine the model below. The particles are undergoing a change in energy.



- 4. Which statement best describes what is taking place in the images?
 - A The kinetic energy of the particles on the right is the greatest of the three images of particles.
 - B The particles in the middle have more kinetic energy than the particles on the right.
 - C The particles in the middle have less space between them than the particles on the left, which means they have more kinetic energy.
 - D Energy was added to the particles on the left to give them more energy than the particles in the middle.

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THREE-DIMENSIONAL THINKING

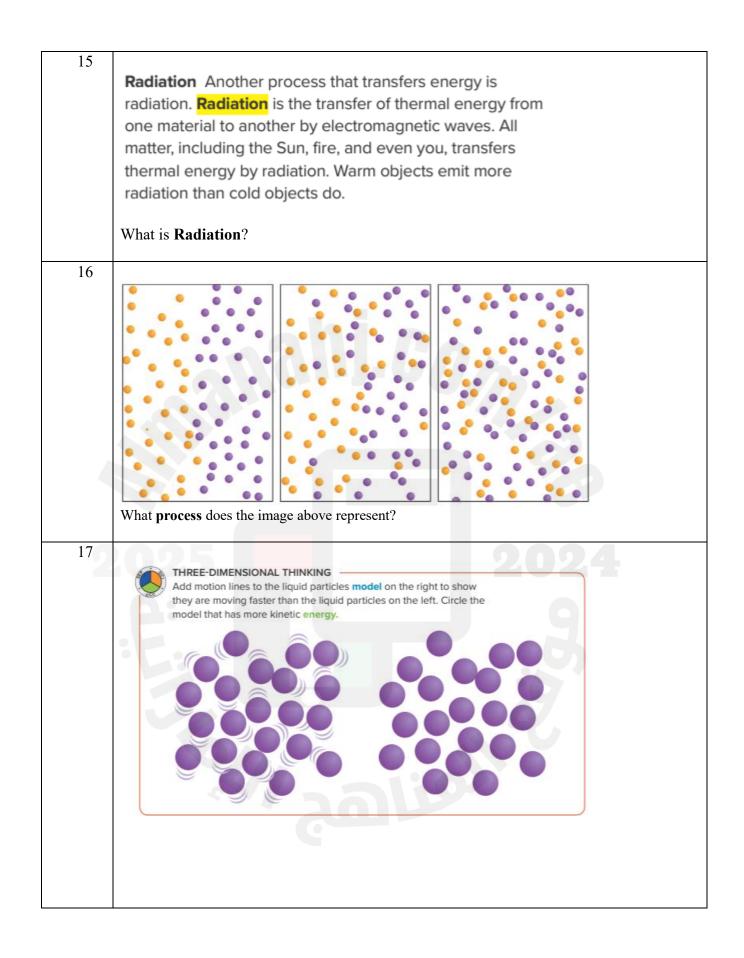
You can bake food in either a metal pan or oven safe glass. Which would require more **energy** to heat up? Which would cool down the fastest? Explain your reasoning.

14



COLLECT EVIDENCE

How does the type of material in the kitchenware affect how it transfers thermal energy?



LESSON 1 LAUNCH



What happened to the puddle?



Four friends noticed a large puddle on the sidewalk when they walked to school in the morning. When they walked home, the puddle was gone. They wondered what happened to the water that was in the puddle.

Desi: I think the water soaked into the bricks.

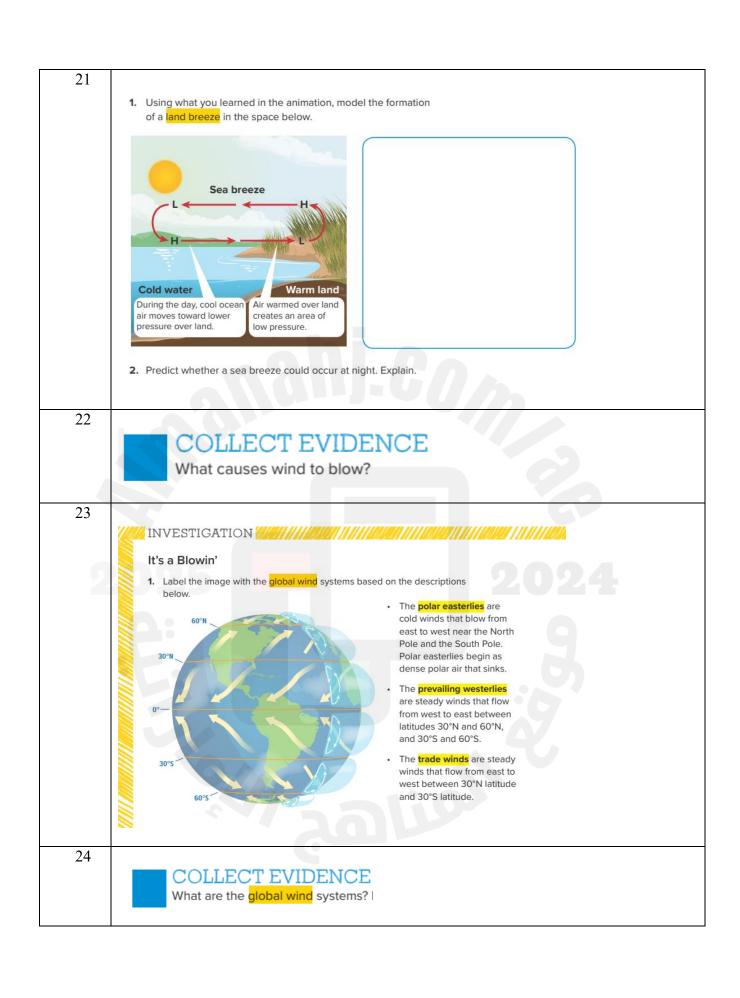
Trudi: I think the water went up into the clouds.

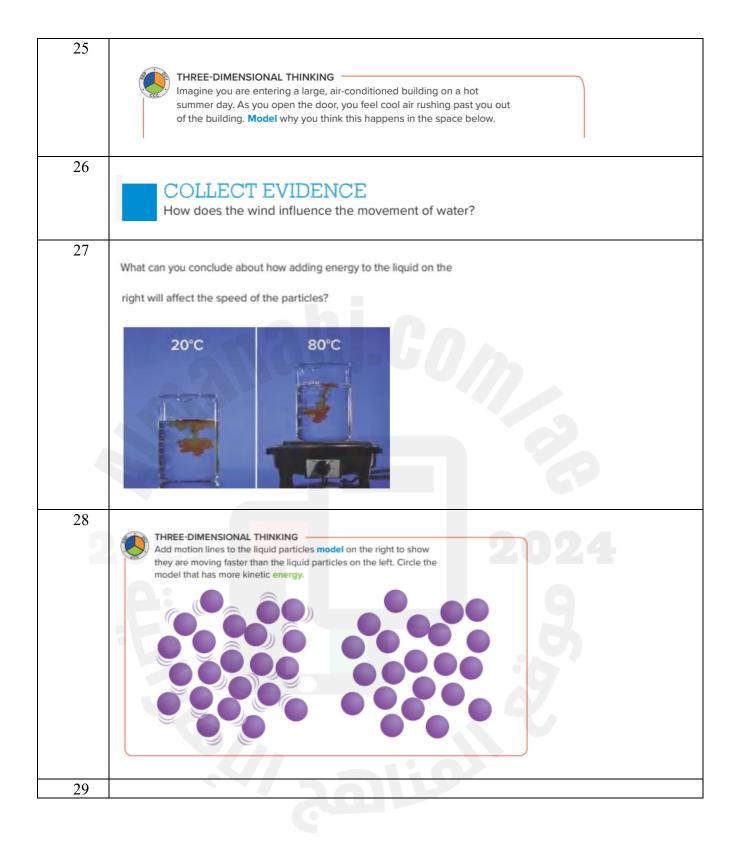
Max: I think the water is in the air around us.

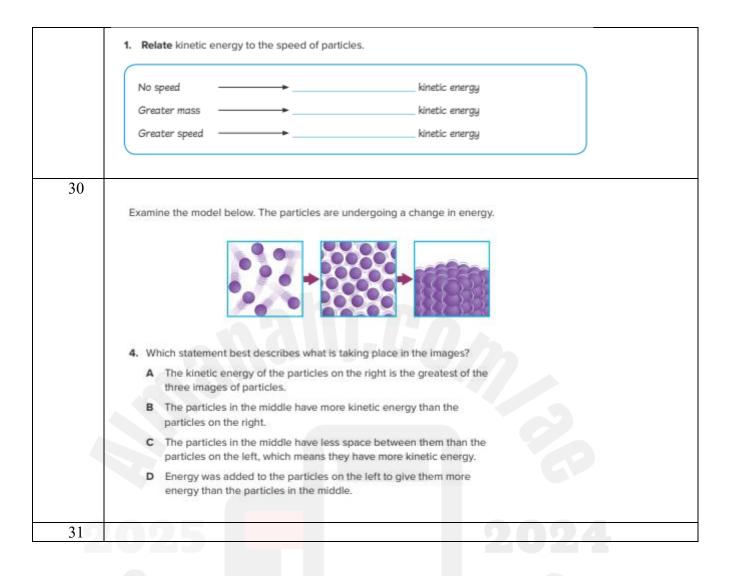
Carli: I think the Sun changed it into something else.

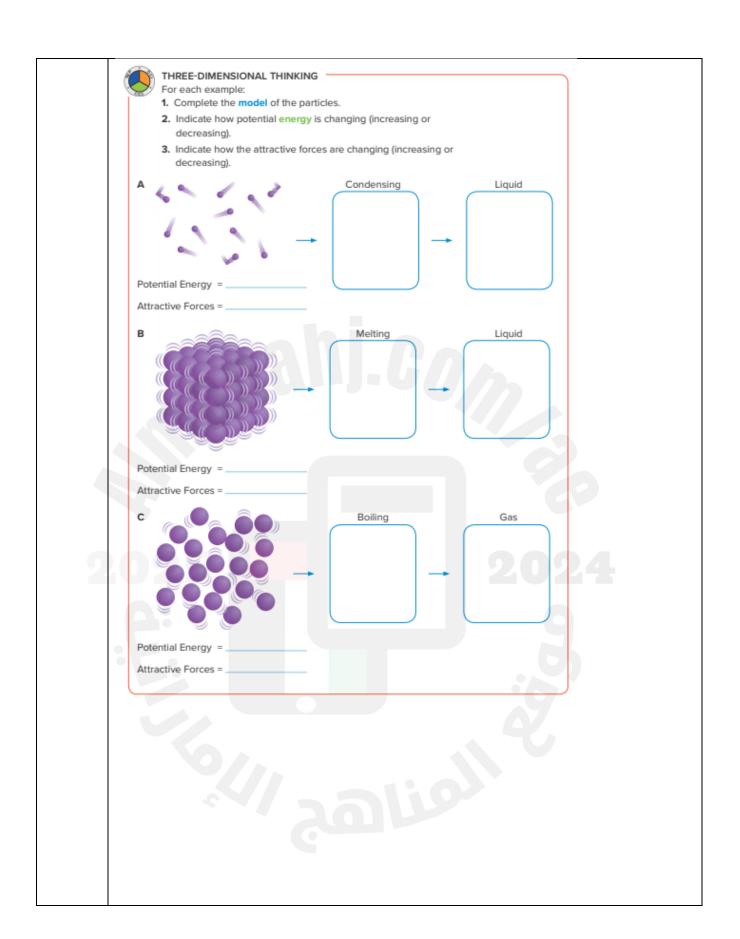
Circle the student you most agree with. Explain why you agree with that student.















Janey had a bowl of hot soup for lunch. The soup was so hot she decided to put it in the refrigerator for a few minutes to cool it. What happened to cool the soup so Janey could eat it?

- A. The heat moved from the soup to the cold air in the refrigerator.
- B. The cold in the refrigerator moved into the hot soup.
- C. No heat or cold moved out of or into the soup. It just cooled off.

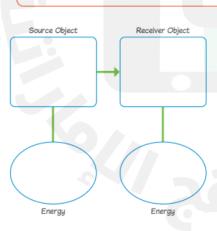
Circle the answer that best matches your thinking. Explain your thinking. Describe what happened to cool the soup down.

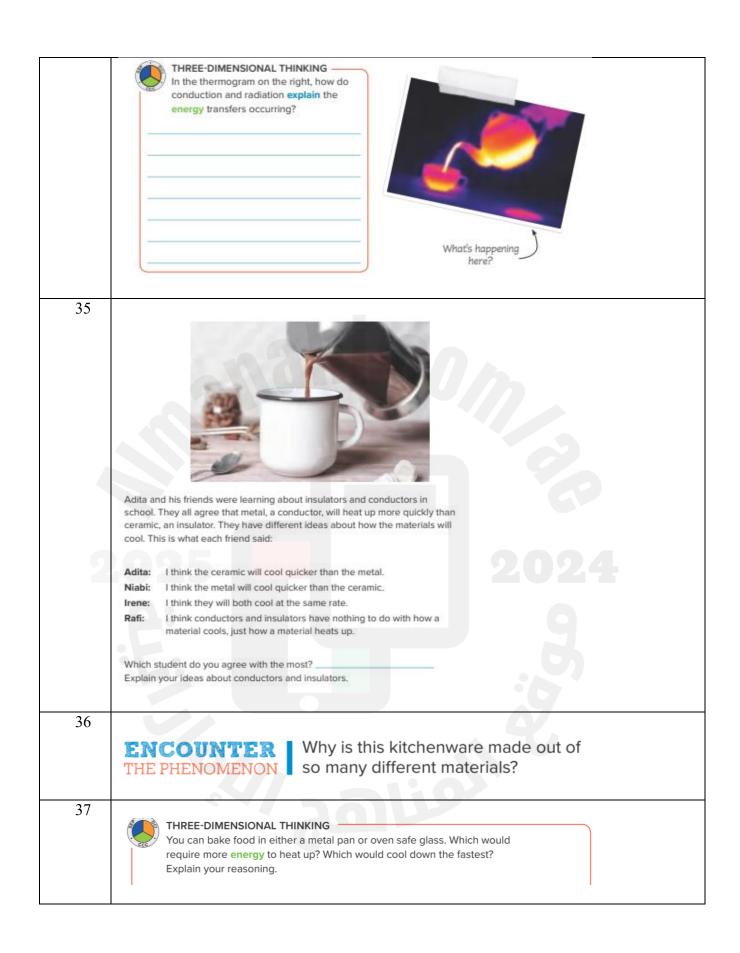




THREE-DIMENSIONAL THINKING

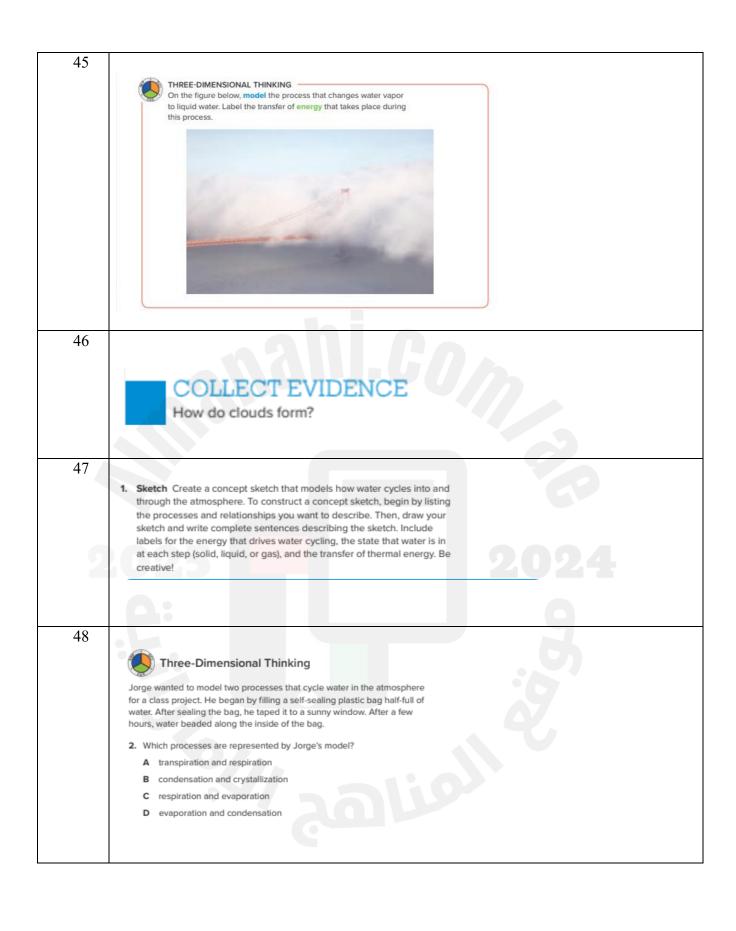
In the figure above, the water in the ice cube tray is 10°C. It is placed in the freezer at 0°C. Add arrows to the figure to **model** the direction of energy transfer.





20	
38	
	COLLECT EVIDENCE
	COLLECT EVIDENCE
	How does the type of material in the kitchenware affect
	how it transfers thermal energy?
39	
	4. The specific heat of air is 1.0 J/g•K and the specific heat of copper is
	0.4 J/g•K. Which statement describes how each material would affect the
	amount of thermal energy transferred?
	A Air and copper transfer thermal energy the same.
	B Copper transfers thermal energy the quickest.
	C Air transfers thermal energy the quickest.
	D Specific heat does not determine how thermal energy transfers.
40	
4	
	0004
	Four friends noticed a large puddle on the sidewalk when they walked to school in the morning. When they walked home, the puddle was gone. They
	wondered what happened to the water that was in the puddle.
	Dark Utbisk the water coaled face the hidde
	Desi: I think the water soaked into the bricks. Trudi: I think the water went up into the clouds.
	Max: I think the water is in the air around us.
	Carli: I think the Sun changed it into something else.
	Circle the student you most agree with. Explain why you agree with
	that student.





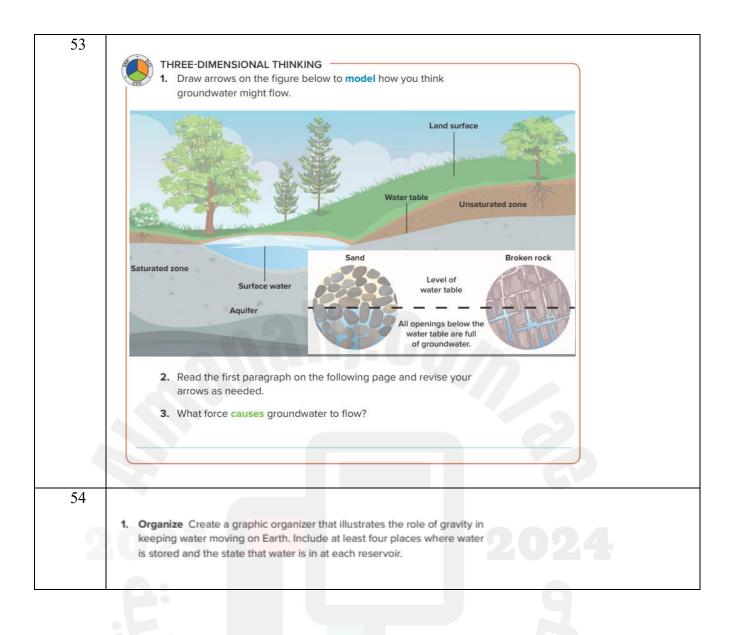
Examine the photo below.



- 3. Which statement best describes the transfer of energy in the photo above?
 - A When water changes state from a liquid to a solid, thermal energy is absorbed.
 - B When water changes state from a solid to a liquid, thermal energy is absorbed.
 - C When water changes state from a liquid to a solid, thermal energy is released.
 - D When water changes state from a solid to a liquid, thermal energy is released.



50	
	Jane was drinking a glass of water. She asked her father where the water
	came from. Her father said it was groundwater that was pumped up by their
	well. Jane wondered what the water looked like underground. This is what her family said:
	Mom: I think it looks like a huge ocean underground.
	Dad: I think it looks like a small lake underground.
	Jack: I think it seeps into little holes or spaces between the soil and the
	rocks.
	Annie: I think it looks like a long, underground tube filled with water.
	Philip: I think it looks like an underground volcano with water spurting out of the top.
	Which person do you agree with the most? Explain your ideas about groundwater.
51	
9	THE PHENOMENON How might a single drop of water travel from a cloud to a stream to an aquifer?
52	COLLECT EVIDENCE Why does water on Earth's surface flow and where does it go?

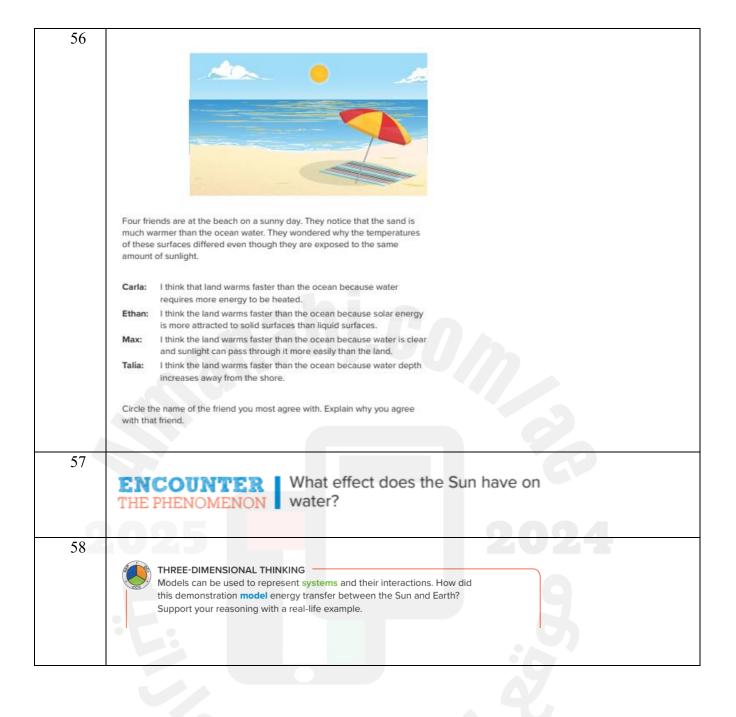




Four friends are walking along the bank of a stream. They each have differing opinions of why the stream moves along Earth's surface.



- 2. Which person do you agree with the most?
 - A Marco: Wind drags water particles along in the stream.
 - B Selma: Gravity causes water in the stream to move downhill.
 - C Brock: The Sun warms the stream causing it to flow.
 - D Chen: The stream moves because of its velocity.





THREE-DIMENSIONAL THINKING

You just investigated how thermal energy from land and water influence the atmosphere. Now, use these cause-and-effect relationships to predict how land, water, and air will absorb and release thermal energy in the following scenarios.



 Suppose you go to the beach in the morning of a sunny summer day. Explain the rate at which thermal energy is absorbed by the water, sand, and air during the day.

Explain why the flow of energy between air and sand is different than that between air and water as thermal energy is absorbed from day to night.



As the Sun begins to set, predict the effect on the rate at which the air, water, and sand will cool.

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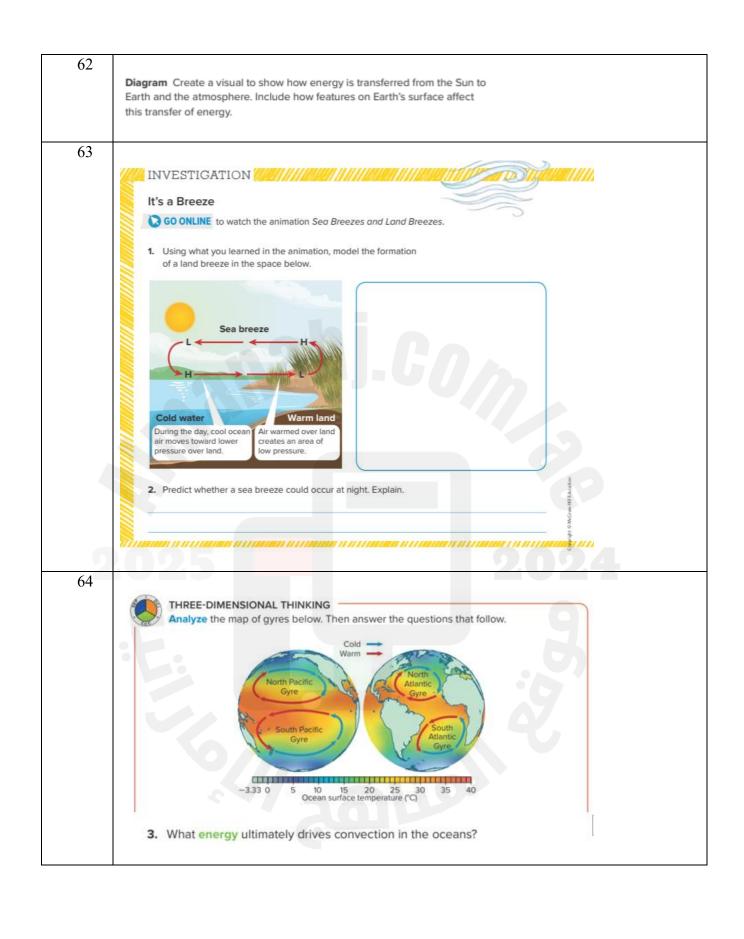


THREE-DIMENSIONAL THINKING

For Earth to radiate thermal energy, it must first absorb thermal energy. However, some natural surfaces on Earth and in the atmosphere are more reflective than absorbent. Examine the photo below.



Use the photo to describe areas of high and low albedo. Explain your reasoning.



GO ONLINE to watch the animation Great Ocean Conveyor Belt.

What is the Great Ocean Conveyor Belt and what does it affect?

