تم تحميل هذا الملف من موقع المناهج الإماراتية





حل تجميعة أسئلة مراجعة وفق الهيكل الوزاري منهج انسباير

موقع المناهج ← المناهج الإماراتية ← الصف السادس ← علوم ← الفصل الأول ← حلول ← الملف

تاريخ إضافة الملف على موقع المناهج: 10-11-2024 20:34:02

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

الرياضيات

اللغة الانجليزية

اللغة العربية

التربية الاسلامية

المواد على تلغرام

المزيد من الملفات بحسب الصف السادس والمادة علوم في الفصل الأول اسئلة مراجعة القسم الالكتروني وفق الهيكل الوزاري منهج بريدج متبوعة بالإجابات اسئلة مراجعة القسم الكتابي وفق الهيكل الوزاري منهج بريدج متبوعة بالإجابات تجميعة صفحات الكتاب وفق الهيكل الوزاري منهج بريدج مراجعة الأسئلة الكتابية المتوقعة في الاختبار النهائي مراجعة أسئلة هيكل مادة العلوم بريدج متبوعة بالإجابات وملخص للدروس

Grade 6 General Science EOT1 Practice Questions

No.	Example	Page
	MCQ	
1	ENGINEERING Connection Investigate how thermometers use thermal contraction and thermal expansion to measure temperature.	Q1 Pg. 17
2	A B C Identify the states of matter represented by letters A, B, and C in the image above.	Q2 pdf
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. 	Pg. 27

		Q3 Pg. 74
	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.	
5		Pg. 83
	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.	
6		Q4 Pg. 26
	1. Relate kinetic energy to the speed of particles. No speed kinetic energy Greater mass kinetic energy	4
	Greater speed kinetic energy	

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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.

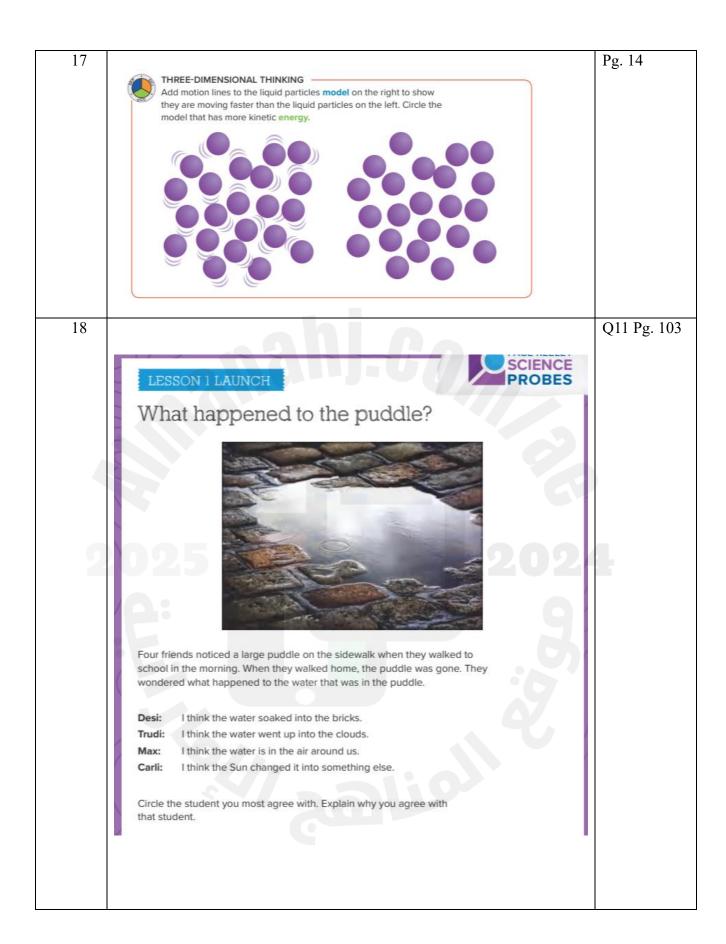
William: I think it has to do with how hard or soft the particles are.

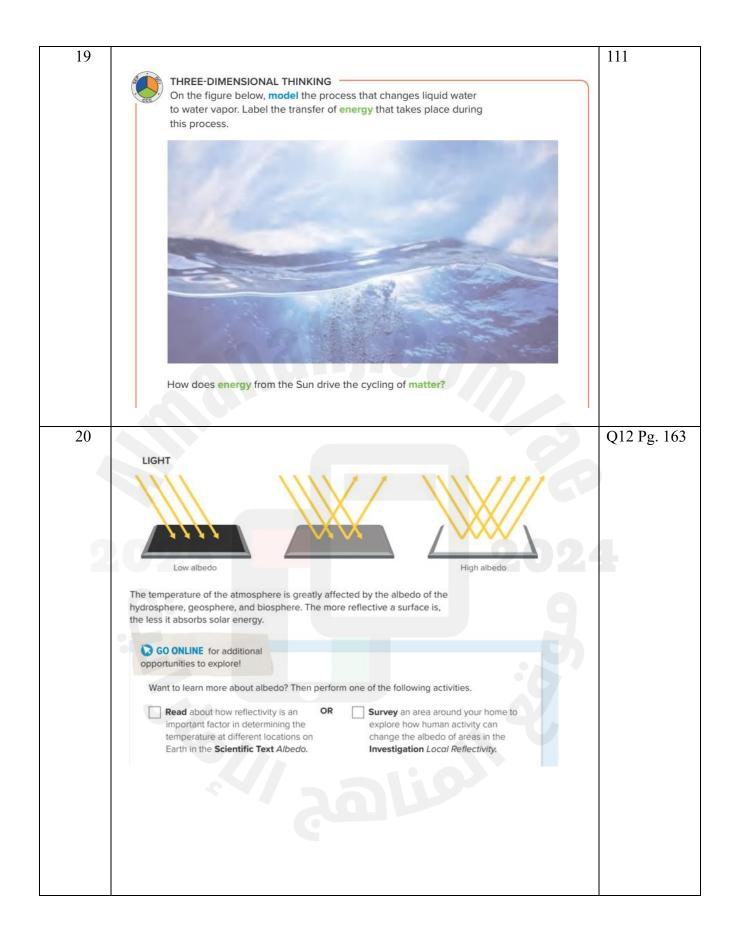
With whom do you agree most? Explain why you agree with that friend.

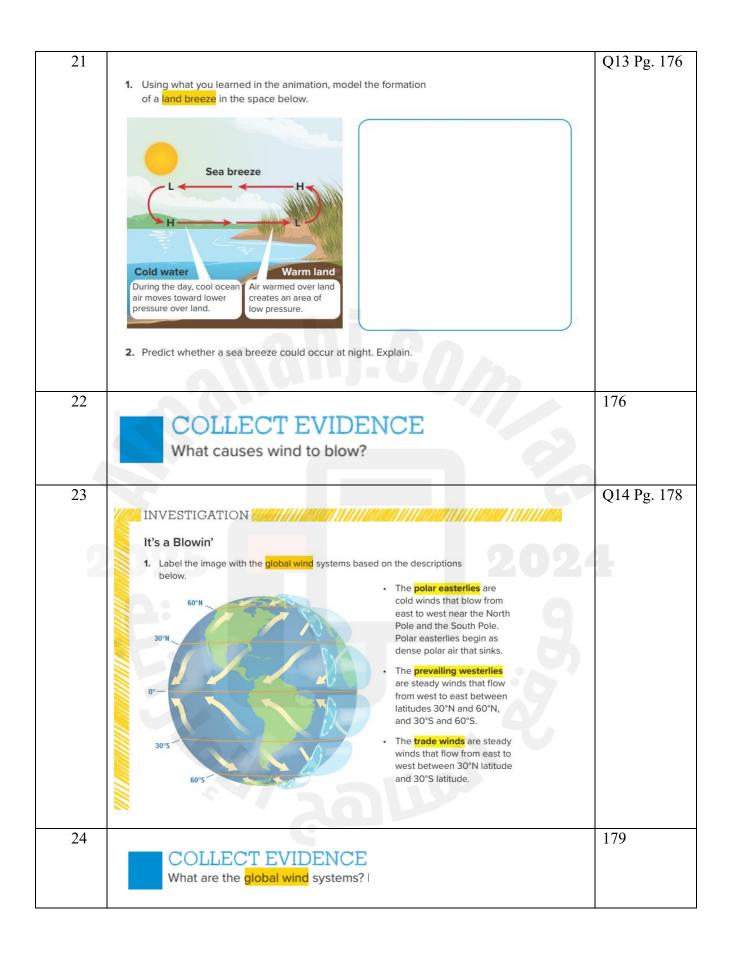
8	THREE-DIMENSIONAL THINKING In the thermogram on the right, how do conduction and radiation explain the energy transfers occurring? What's happening here?	Q5 Pg.65
9	COLLECT EVIDENCE How does radiation help explain the direction of thermal energy transfer between the toast and the environment?	65
10	3. A scientist was working with substance Y. Which of the following does not represent an increase in thermal energy? A The temperature of the substance rose by 10°C. B The volume of the substance increased by 10 mL. C The mass of the substance increased by 10 g. D The substance changed from a liquid into a solid.	Q6 Pg. 51

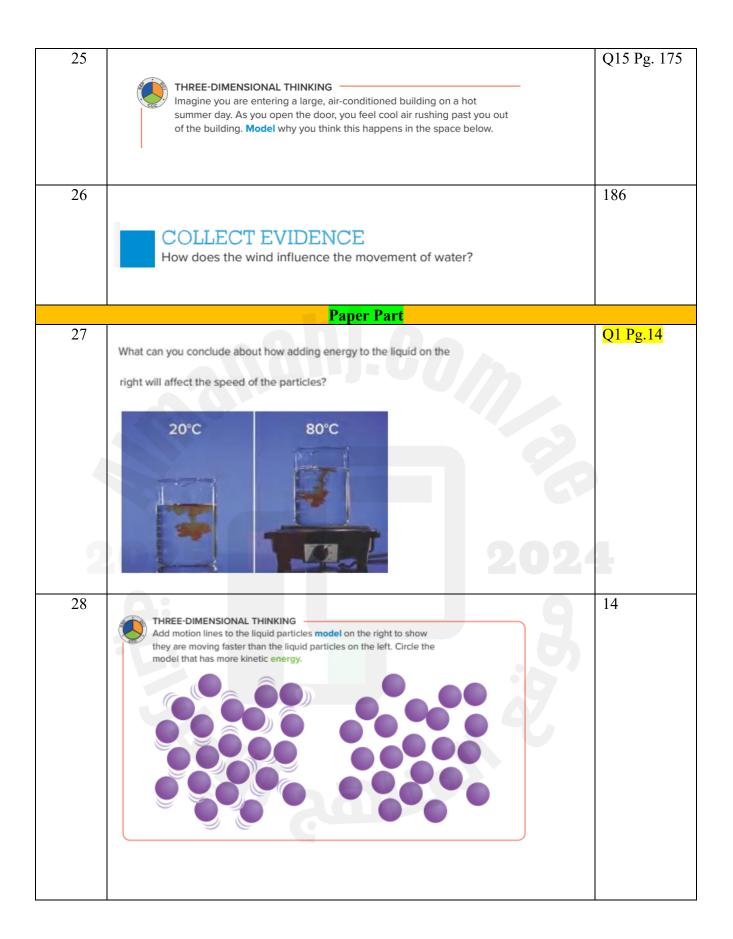
11		52
	Real-World Connection	
	Explain Think of a time that you noticed a change of state. Explain what happened using the terms temperature, particle motion, and energy.	
	Compare the amount of thermal energy required to melt a solid with the amount of thermal energy released when the same liquid becomes a solid.	
12		Q7 Pg. 27
	Three-Dimensional Thinking	
	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.	

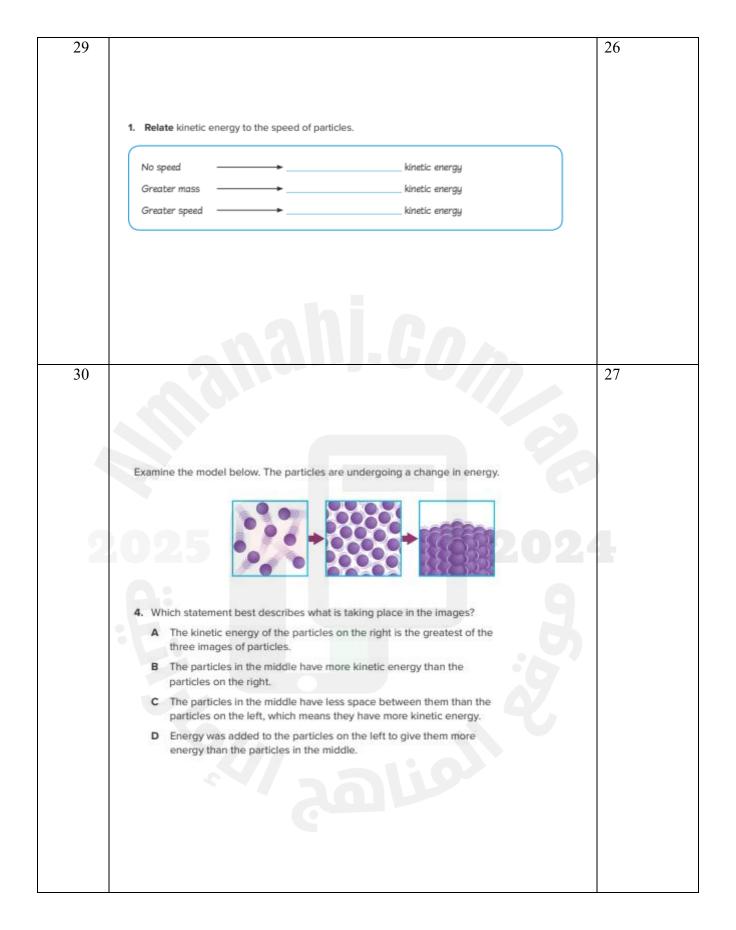
13	THREE-DIMENSIONAL THINKING You can bake food in either a metal pan or oven safe glass. Which would require more energy to heat up? Which would cool down the fastest? Explain your reasoning.	Q8 83
14	COLLECT EVIDENCE How does the type of material in the kitchenware affect how it transfers thermal energy?	83
15	Radiation Another process that transfers energy is radiation. Radiation is the transfer of thermal energy from one material to another by electromagnetic waves. All matter, including the Sun, fire, and even you, transfers thermal energy by radiation. Warm objects emit more radiation than cold objects do. What is Radiation?	Q9 Pg. 65
16	What process does the image above represent?	Q10 Pg. 12

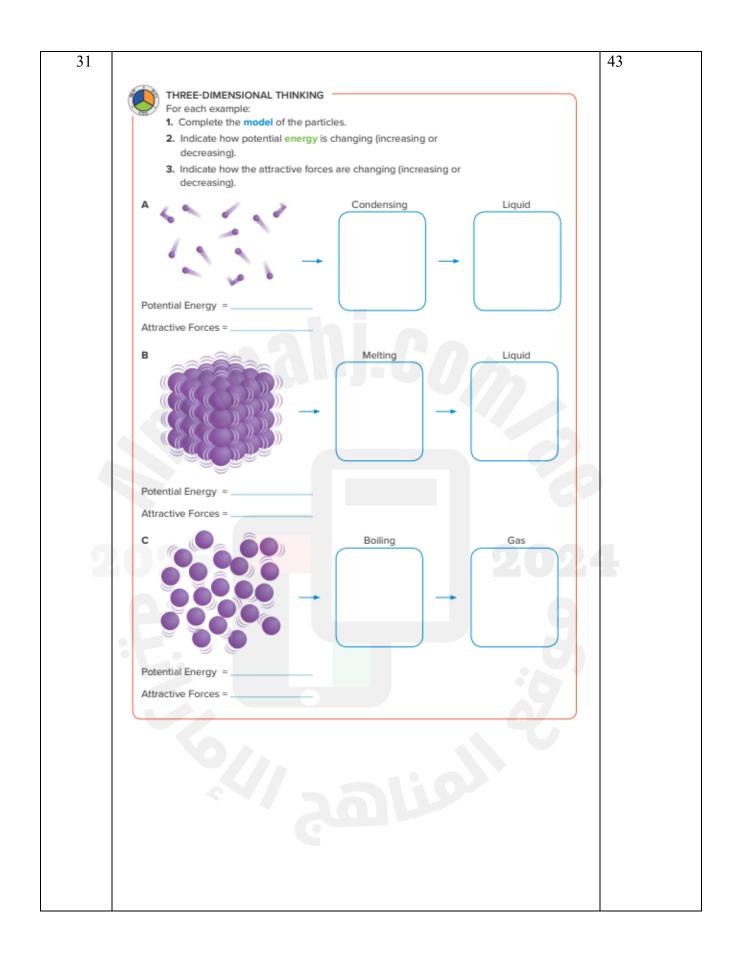


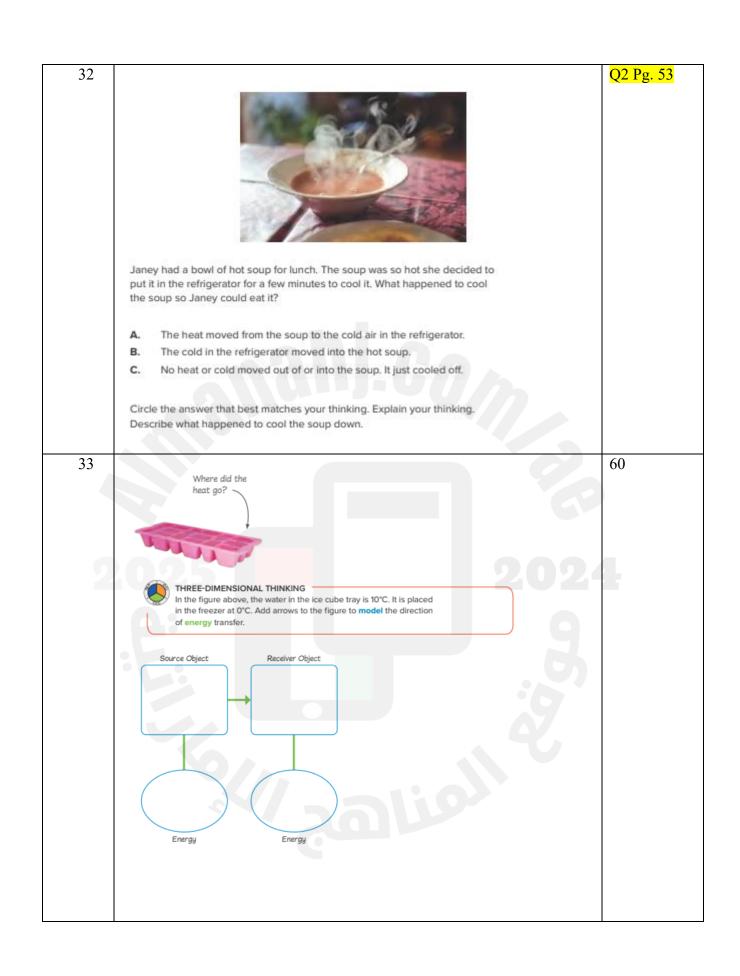


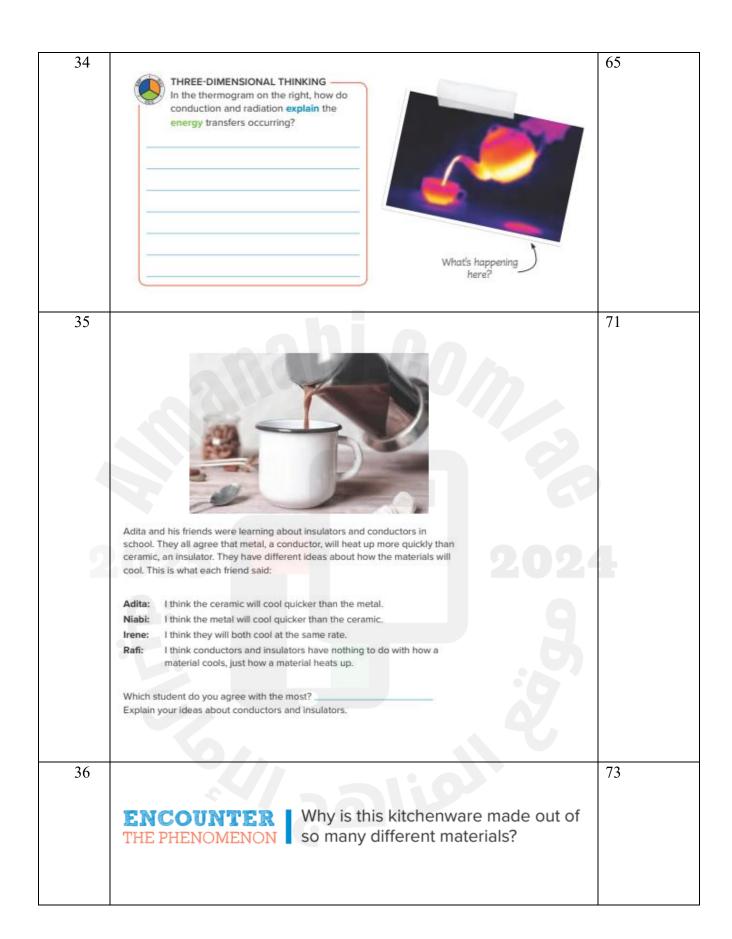




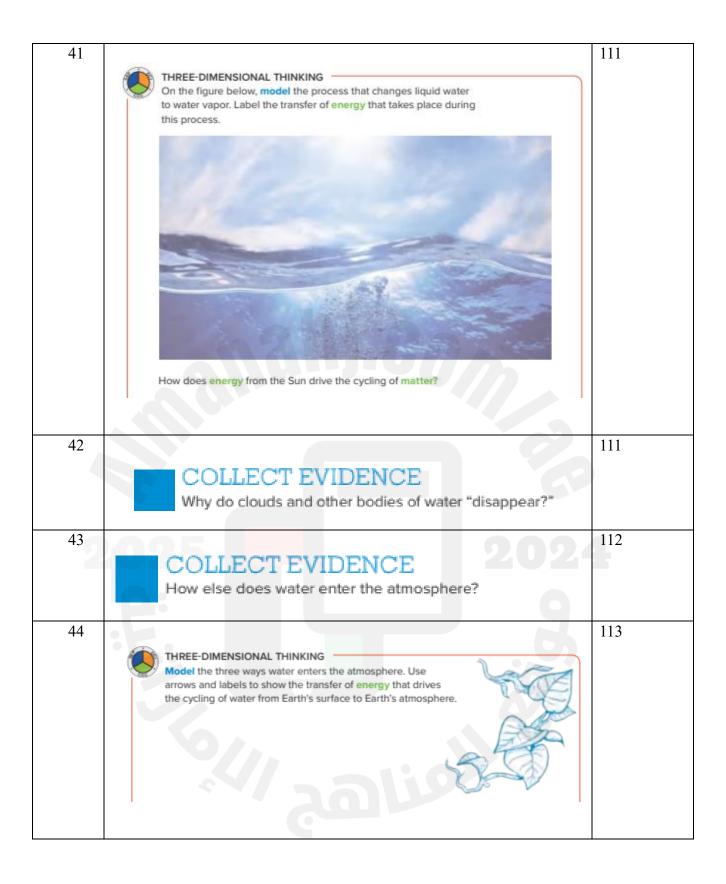








37	THREE-DIMENSIONAL THINKING You can bake food in either a metal pan or oven safe glass. Which would require more energy to heat up? Which would cool down the fastest? Explain your reasoning.	83
38	COLLECT EVIDENCE How does the type of material in the kitchenware affect how it transfers thermal energy?	83
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. 	89
40	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.	Q3 Pg. 103



45		116
	THREE-DIMENSIONAL THINKING	
	On the figure below, model the process that changes water vapor to liquid water. Label the transfer of energy that takes place during	
	this process.	
	and the same of th	
	The second secon	
lo lo		
46		116
	COLLEGE EVIDENCE	
	COLLECT EVIDENCE	
	How do clouds form?	
47		118
	. Sketch Create a concept sketch that models how water cycles into and	
	through the atmosphere. To construct a concept sketch, begin by listing	
	the processes and relationships you want to describe. Then, draw your	
	sketch and write complete sentences describing the sketch. Include labels for the energy that drives water cycling, the state that water is in	
	at each step (solid, liquid, or gas), and the transfer of thermal energy. Be	-
	creative!	
48		119
	Three-Dimensional Thinking	
	Jorge wanted to model two processes that cycle water in the atmosphere	
	for a class project. He began by filling a self-sealing plastic bag half-full of	
	water. After sealing the bag, he taped it to a sunny window. After a few hours, water beaded along the inside of the bag.	
	2. Which processes are represented by Jorge's model?	
	A transpiration and respiration	
	B condensation and crystallization	
	C respiration and evaporation	
	D evaporation and condensation	

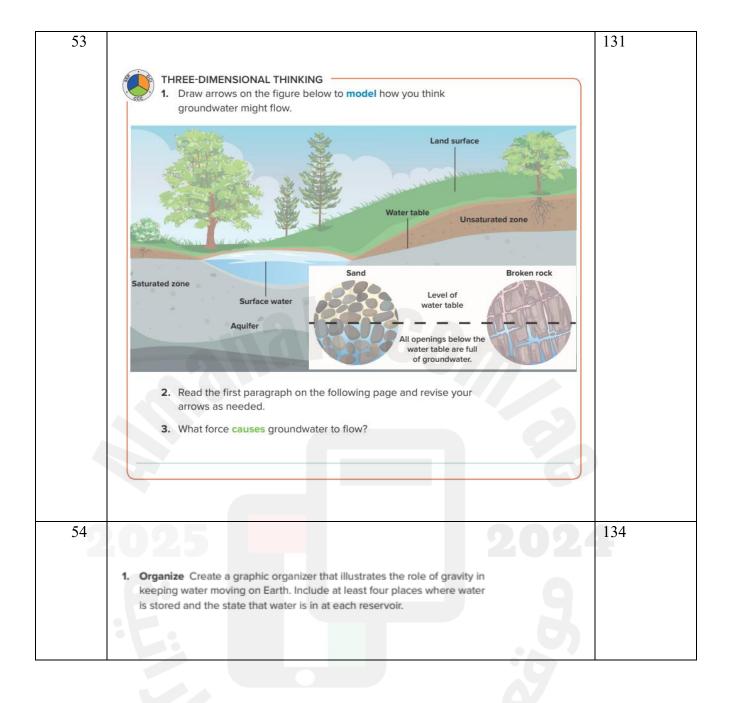
Examine the photo below.



119

- 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.
 - When water changes state from a solid to a liquid, thermal energy is released.

50		121 lesson 2 launch
	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.	
2	Which person do you agree with the most? Explain your ideas about groundwater.	
51	ENCOUNTER THE PHENOMENON How might a single drop of water travel from a cloud to a stream to an aquifer?	123
52	COLLECT EVIDENCE Why does water on Earth's surface flow and where does it go?	129







Three-Dimensional Thinking

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

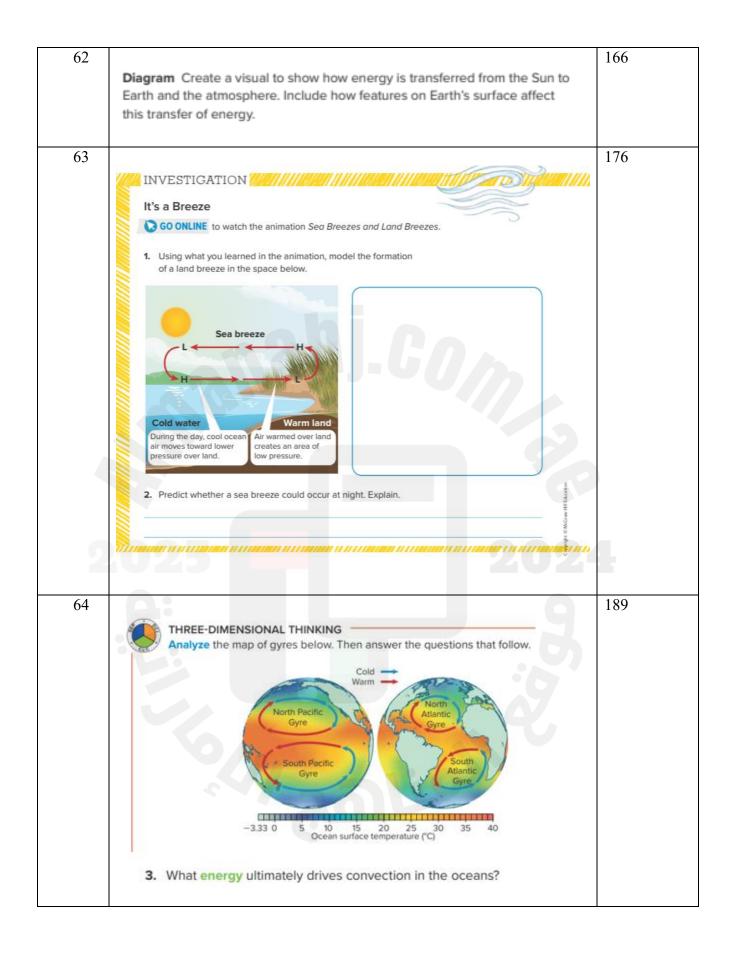


- 2. Which person do you agree with the most?
 - A Marco: Wind drags water particles along in the stream.
 - B Selma: Gravity causes water in the stream to move downhill.
 - C Brock: The Sun warms the stream causing it to flow.
 - D Chen: The stream moves because of its velocity.

56		Q4 Pg. 145
	Four friends are at the beach on a sunny day. They notice that the sand is much warmer than the ocean water. They wondered why the temperatures	
	of these surfaces differed even though they are exposed to the same amount of sunlight.	
	anount of samight.	
	Carla: I think that land warms faster than the ocean because water requires more energy to be heated.	
	Ethan: I think the land warms faster than the ocean because solar energy is more attracted to solid surfaces than liquid surfaces.	
	Max: I think the land warms faster than the ocean because water is clear and sunlight can pass through it more easily than the land.	
	Talia: I think the land warms faster than the ocean because water depth increases away from the shore.	
	Circle the name of the friend you most agree with. Explain why you agree with that friend.	
57		1.47
57	ENCOUNTER What effect does the Sun have on	147
	ENCOUNTER What effect does the Sun have on water?	
58		151
36	THREE-DIMENSIONAL THINKING	131
	Models can be used to represent systems and their interactions. How did this demonstration model energy transfer between the Sun and Earth?	
	Support your reasoning with a real-life example.	







65		190
	What is the Great Ocean Conveyor Belt and what does it affect?	

