

Tennessee Comprehensive Assessment Program

TCAP

Grade 6 Science Alternative Assessment Item Release





Developed by ETS (Educational Testing Service) and edCount LLC. Published under contract with the Tennessee Department of Education by Questar Assessment Inc., 5550 Upper 147th Street West, Minneapolis, MN 55124. Copyright © 2017 by Tennessee Department of Education. No part of this publication may be copied, reproduced, or distributed in any form or by any means, or stored in a database or retrieval system, without the prior express written consent of the Tennessee Department of Education and Questar Assessment Inc. Nextera® is a registered trademark of Questar Assessment Inc. All trademarks, product names, and logos are the property of their respective owners. All rights reserved.

Table of Contents

Metadata Interpretation Guide – ALT Science and Social Studies 4
 ITEM INFORMATION4
 METADATA DEFINITIONS4

Grade 6 Science ALT Items 5

Grade 6 Science ALT Directions for Test Administration (Teacher Book) 12

Metadata Interpretation Guide – ALT Science and Social Studies

ITEM INFORMATION

ETS Item Code:	TAS01S0477	Category:	Biodiversity and Change
Item ID:	1273	Correct Answer:	B
DOK Level:	2	Content:	Science
Level:	1	Grade:	10
Standard Code:	3210.5.1	Item Type:	SR
Standard Text:	Compare and contrast the structural, functional, and behavioral adaptations of animals or plants found in different environments.	Points:	1
AAT or UC Text:	Compare physical characteristics of animals advantageous for survival in their environments.	AAT or UC:	UC

METADATA DEFINITIONS

ETS Item Code: Unique letter/number code used to identify the item.	Category: Text of the Reporting Category the standard assesses.
Item ID: Unique number code the vendor uses to identify the item internally.	Correct Answer: Correct answer. For multi part items correct answers are listed in order, separated by a comma.
DOK Level: (if listed): Depth of Knowledge (cognitive complexity) is measured on the following scale: 2 = Memorize/Recall, 3 = Performance, 4 = Comprehension.	Content: Subject.
Level: Tier, on the following scale: 1 = SR item with two options, lower complexity; 2 = SR item with three options, moderate complexity; 3 = MP item includes 3 questions with two answer options each, higher complexity.	Grade: Grade level.
Standard Code: Primary educational standard assessed.	Item Type: SR for single response multiple choice item, MP for multiple part multiple choice items.
Standard Text: Text of the educational standard assessed.	Points: Maximum points possible for this item.
AAT or UC Text: Text of the Alternate Assessment Target or Underlying concept	AAT or UC: Alternate Assessment Target or Underlying Concept.

Grade 6 Science ALT Items

Item Information

ETS Item Code: TAS01S0237

Content: Science

Item ID: 1124

Grade: 06

DOK Level: 2

Item Type: SR

Level: 1

Points: 1

Standard Code: 0607.10.3

AAT or UC: UC

Standard Text: Recognize that energy can be transformed from one type to another.

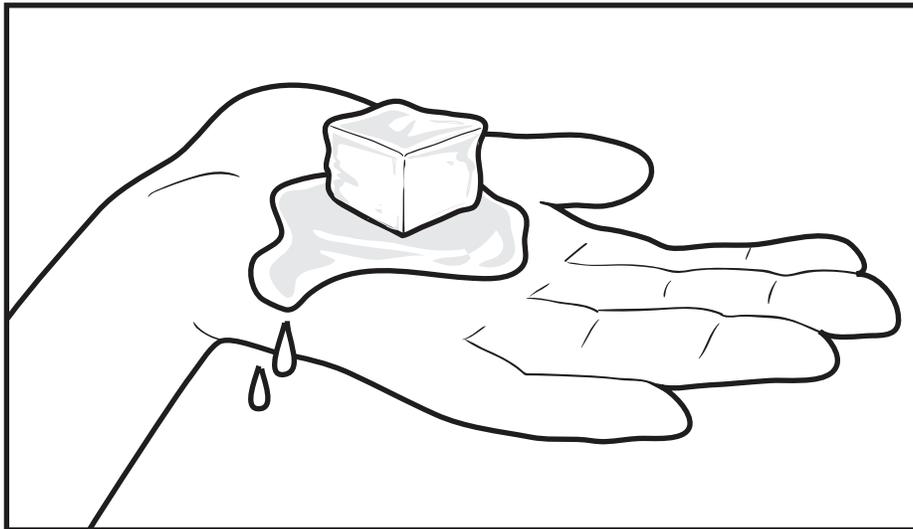
AAT or UC Text: Identify real-world applications where heat energy is transferred (e.g., A stove transfers heat to a pan).

Category: Energy, Forces in Nature

Correct Answer: B

This is about energy being transferred.

Heat is a form of energy. Heat energy moves from warmer objects to cooler ones.



Which of these describes the movement of heat energy in the diagram?

- A. Heat moves from the ice cube to the hand.
- B. Heat moves from the hand to the ice cube.

Item Information

ETS Item Code: TAS01S0238	Content: Science
Item ID: 1125	Grade: 06
DOK Level: 3	Item Type: SR
Level: 2	Points: 1
Standard Code: 0607.10.3	AAT or UC: AAT
Standard Text: Recognize that energy can be transformed from one type to another.	
AAT or UC Text: Identify real-world applications where energy is transformed (e.g., A television changes electrical energy into sound and light energy).	
Category: Energy, Forces in Nature	
Correct Answer: B	

This is about energy being transformed.

Energy can come in many different forms. Energy can change from one form to another.

Which of these is an example of energy being transformed?

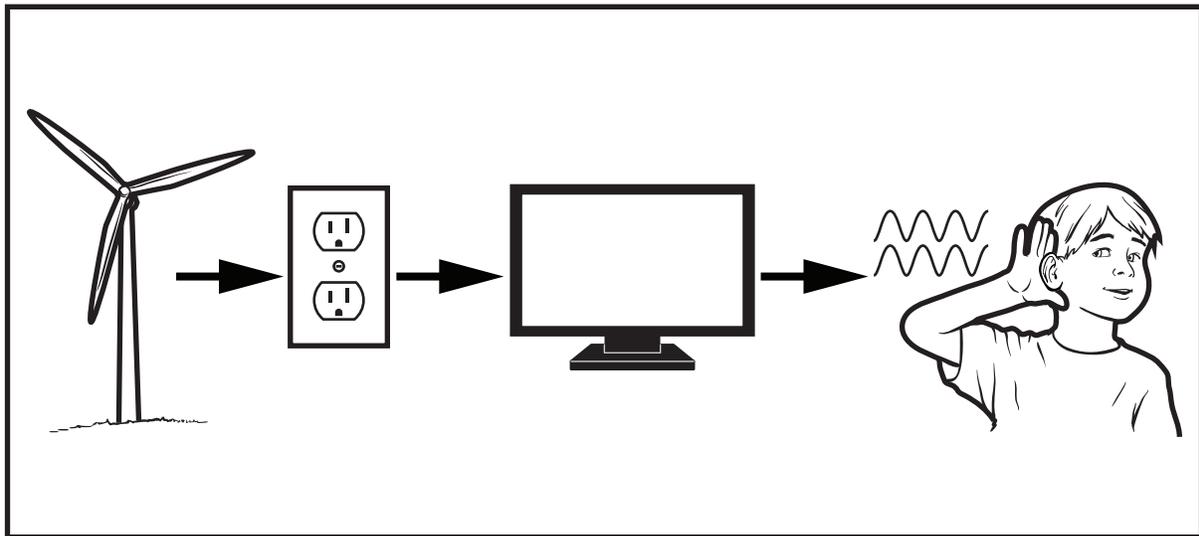
- A. A toaster is unplugged.
- B. A toaster turns electricity to heat energy.
- C. A piece of toast is removed from a toaster.

Item Information

ETS Item Code: TAS01S0239	Content: Science
Item ID: 1126	Grade: 06
DOK Level: 4	Item Type: MP
Level: 3a	Points: 3
Standard Code: 0607.10.3	AAT or UC: AAT
Standard Text: Recognize that energy can be transformed from one type to another.	
AAT or UC Text: Identify real-world applications where energy is transformed (e.g., A television changes electrical energy into sound and light energy).	
Category: Energy, Forces in Nature	
Correct Answer: B,A,B	

This is about energy being transformed.

Energy can come in many different forms. Energy can change from one form to another.



Use the diagram to answer the questions.

Point to and read each question to the student.

Is the electrical outlet the original source of energy?

A. YES

B. NO

Does the TV transform electrical energy into sound energy?

A. YES

B. NO

Can the TV make light energy without electricity?

A. YES

B. NO

Item Information

ETS Item Code: TAS01S0240

Item ID: 1127

DOK Level: 4

Level: 3b

Standard Code: 0607.10.3

Standard Text: Recognize that energy can be transformed from one type to another.

AAT or UC Text: Identify real-world applications where energy is transformed (e.g., A television changes electrical energy into sound and light energy).

Category: Energy, Forces in Nature

Correct Answer: A,B,A

Content: Science

Grade: 06

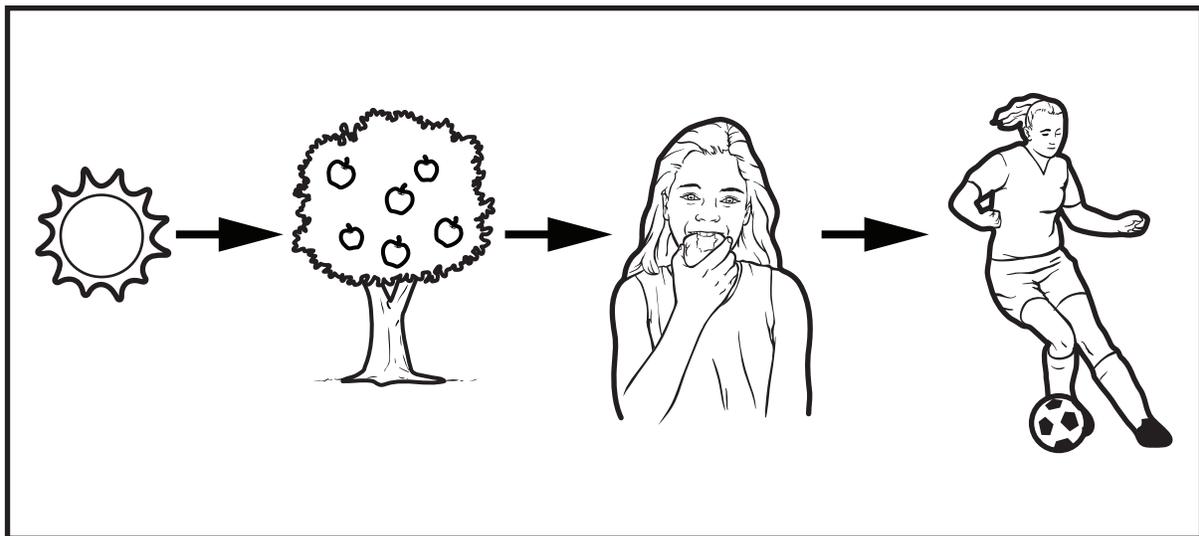
Item Type: MP

Points: 3

AAT or UC: AAT

This is about energy being transformed.

Energy can come in many different forms. Energy can change from one form to another.



Use the diagram to answer the questions.

Is the sun the original source of energy?

A. YES

B. NO

Does the girl get energy directly from the sun?

A. YES

B. NO

Can the girl get more energy by eating more food?

A. YES

B. NO

Grade 6 Science ALT Directions for Test Administration (Teacher Book)

Item Information

ETS Item Code: TAS01S0237

Content: Science

Item ID: 1124

Grade: 06

DOK Level: 2

Item Type: SR

Level: 1

Points: 1

Standard Code: 0607.10.3

AAT or UC: UC

Standard Text: Recognize that energy can be transformed from one type to another.

AAT or UC Text: Identify real-world applications where heat energy is transferred (e.g., A stove transfers heat to a pan).

Category: Energy, Forces in Nature

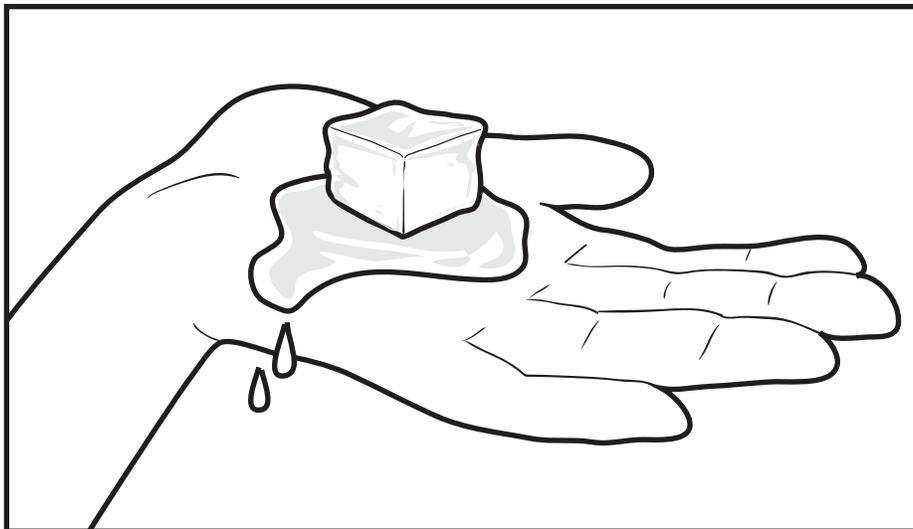
Correct Answer: B

This is about energy being transferred.

Heat is a form of energy. Heat energy moves from warmer objects to cooler ones.

Point to the diagram.

[For students with visual impairment, read "An ice cube has been placed in the middle of a student's hand. The ice cube is melting, and water is dripping off the side of the student's hand."]



Which of these describes the movement of heat energy in the diagram?

Point to and read each option to the student.

- A. Heat moves from the ice cube to the hand.
- B. Heat moves from the hand to the ice cube.

Item Information

ETS Item Code: TAS01S0238	Content: Science
Item ID: 1125	Grade: 06
DOK Level: 3	Item Type: SR
Level: 2	Points: 1
Standard Code: 0607.10.3	AAT or UC: AAT
Standard Text: Recognize that energy can be transformed from one type to another.	
AAT or UC Text: Identify real-world applications where energy is transformed (e.g., A television changes electrical energy into sound and light energy).	
Category: Energy, Forces in Nature	
Correct Answer: B	

This is about energy being transformed.

Energy can come in many different forms. Energy can change from one form to another.

Which of these is an example of energy being transformed?

Point to and read each option to the student.

- A. A toaster is unplugged.
- B. A toaster turns electricity to heat energy.
- C. A piece of toast is removed from a toaster.

Item Information

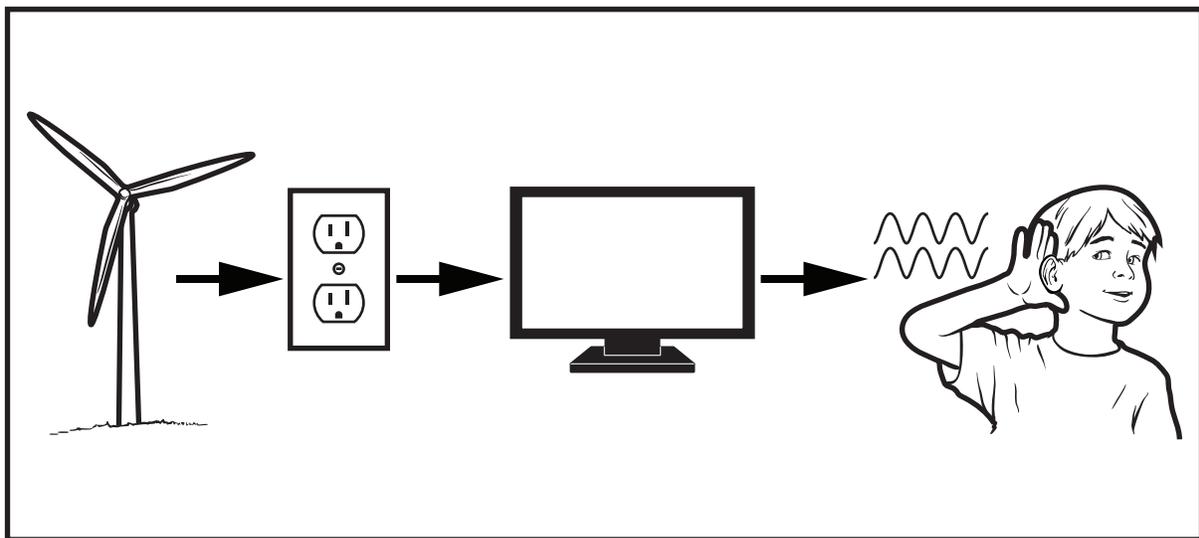
ETS Item Code: TAS01S0239	Content: Science
Item ID: 1126	Grade: 06
DOK Level: 4	Item Type: MP
Level: 3a	Points: 3
Standard Code: 0607.10.3	AAT or UC: AAT
Standard Text: Recognize that energy can be transformed from one type to another.	
AAT or UC Text: Identify real-world applications where energy is transformed (e.g., A television changes electrical energy into sound and light energy).	
Category: Energy, Forces in Nature	
Correct Answer: B,A,B	

This is about energy being transformed.

Energy can come in many different forms. Energy can change from one form to another.

Point to the diagram.

[For all students, read "This is a diagram showing how energy changes from one form to another. (Point to the windmill.) This is a windmill that collects wind energy. The wind energy is then turned into electricity (point to the outlet). Electricity powers many things we use every day, like a TV (point to the TV). The student hears the sound of the TV and sees the light from the TV (point to the student)."]



Use the diagram to answer the questions.

Point to and read each question to the student.

Is the electrical outlet the original source of energy?

A. YES

B. NO

Does the TV transform electrical energy into sound energy?

A. YES

B. NO

Can the TV make light energy without electricity?

A. YES

B. NO

Item Information

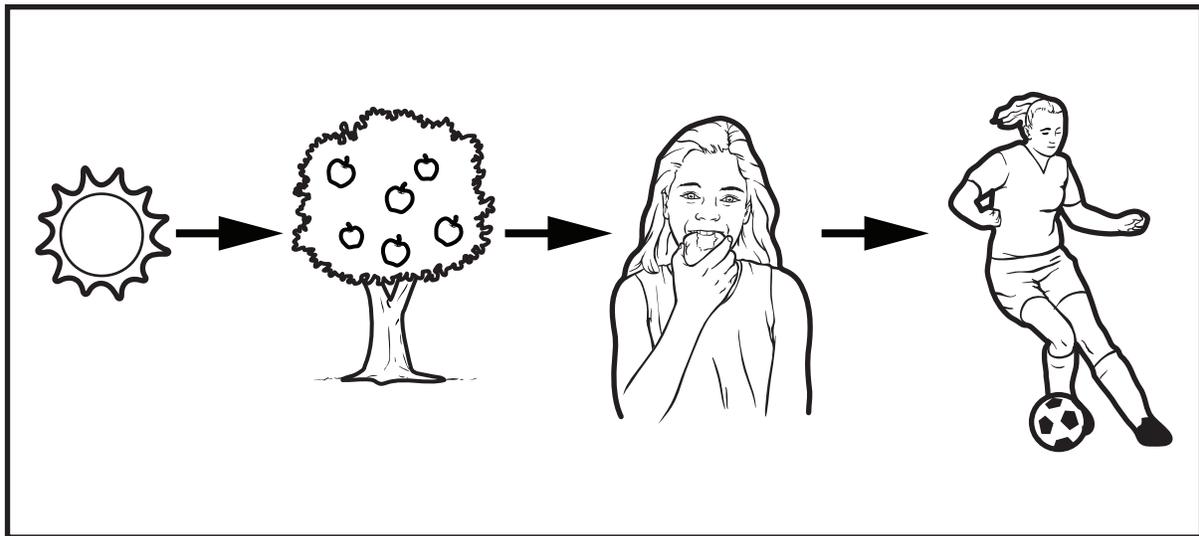
ETS Item Code: TAS01S0240	Content: Science
Item ID: 1127	Grade: 06
DOK Level: 4	Item Type: MP
Level: 3b	Points: 3
Standard Code: 0607.10.3	AAT or UC: AAT
Standard Text: Recognize that energy can be transformed from one type to another.	
AAT or UC Text: Identify real-world applications where energy is transformed (e.g., A television changes electrical energy into sound and light energy).	
Category: Energy, Forces in Nature	
Correct Answer: A,B,A	

This is about energy being transformed.

Energy can come in many different forms. Energy can change from one form to another.

Point to the diagram.

[For all students, read "This is a diagram showing how energy changes from one form to another. (Point to the sun.) The sun gives off light energy that is collected by the apple tree (point to the apple tree). The apple tree transforms the sun's light energy into chemical energy. When the girl eats the apple (point to the girl eating the apple), the chemical energy transforms into kinetic energy, which allows her to play soccer (point to the girl playing soccer)."]



Use the diagram to answer the questions.

Point to and read each question to the student.

Is the sun the original source of energy?

A. YES

B. NO

Does the girl get energy directly from the sun?

A. YES

B. NO

Can the girl get more energy by eating more food?

A. YES

B. NO

This page intentionally left blank.

Tennessee Comprehensive
Assessment Program TCAP
Grade 6 Science
Alternative Assessment
Item Release
Spring 2017

