

# Tennessee Comprehensive Assessment Program

# TCAP

## Grade 4 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 INFORMATION .....4  
    METADATA DEFINITIONS .....4

**Grade 4 Science ALT Items..... 5**

**Grade 4 Science ALT Directions for Test Administration (Teacher Book) ..... 11**

# Metadata Interpretation Guide – ALT Science and Social Studies

## ITEM INFORMATION

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

## METADATA DEFINITIONS

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

## Grade 4 Science ALT Items

---

### Item Information

ETS Item Code: TAS01S0073

Content: Science

Item ID: 1069

Grade: 04

DOK Level: 2

Item Type: SR

Level: 1

Points: 1

Standard Code: 0407.2.1

AAT or UC: UC

Standard Text: Recognize the impact of predation and competition on an ecosystem.

AAT or UC Text: Identify food that humans eat.

Category: Interdependence, Biodiversity & Change

Correct Answer: A

---

This is about food.

Which of these do humans eat?

A. vegetables

B. rocks

**Item Information**

ETS Item Code: TAS01S0074	Content: Science
Item ID: 1070	Grade: 04
DOK Level: 3	Item Type: SR
Level: 2	Points: 1
Standard Code: 0407.2.1	AAT or UC: AAT
Standard Text: Recognize the impact of predation and competition on an ecosystem.	
AAT or UC Text: Identify whether a change in obtaining food will increase or decrease a species' chances of survival.	
Category: Interdependence, Biodiversity & Change	
Correct Answer: A	

---

This is about how living things get food.

Living things need energy to survive. Animals get energy from food.

What would a group of animals **most** likely do if they could **not** find food?

- A. move to a new place
- B. grow larger
- C. eat rocks

**Item Information**

ETS Item Code: TAS01S0075

Content: Science

Item ID: 1071

Grade: 04

DOK Level: 4

Item Type: MP

Level: 3a

Points: 3

Standard Code: 0407.2.1

AAT or UC: AAT

Standard Text: Recognize the impact of predation and competition on an ecosystem.

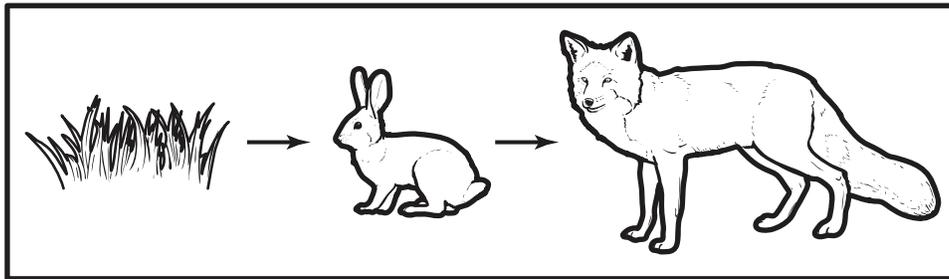
AAT or UC Text: Identify whether a change in obtaining food will increase or decrease a species' chances of survival.

Category: Interdependence, Biodiversity &amp; Change

Correct Answer: A,B,B

This is about how living things survive.

Living things need energy to survive. Plants get energy from the sun. Animals get energy from food.



Use the food chain diagram to answer the questions.

If the foxes move away,  
will it be easier for rabbits  
to survive?

A. YES

B. NO

If the rabbits move away,  
will it be easier for foxes to  
survive?

A. YES

B. NO

If the grass goes away, will it be easier for foxes to survive?

A. YES

B. NO

**Item Information**

ETS Item Code: TAS01S0076

Content: Science

Item ID: 1072

Grade: 04

DOK Level: 4

Item Type: MP

Level: 3b

Points: 3

Standard Code: 0407.2.1

AAT or UC: AAT

Standard Text: Recognize the impact of predation and competition on an ecosystem.

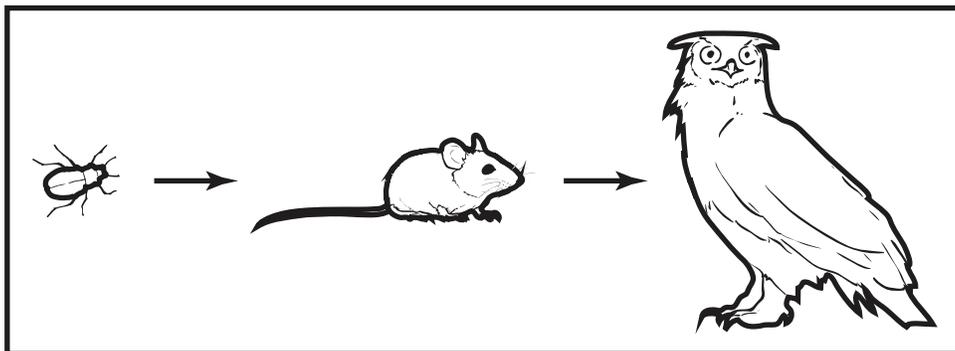
AAT or UC Text: Identify whether a change in obtaining food will increase or decrease a species' chances of survival.

Category: Interdependence, Biodiversity &amp; Change

Correct Answer: B,A,A

This is about how living things survive.

Living things need energy to survive. Animals get energy from food.



Use the food chain diagram to answer the questions.

If the owls move away, will it be harder for mice to survive?

A. YES

B. NO

If the mice move away, will it be harder for owls to survive?

A. YES

B. NO

If the insects move away,  
will it be harder for owls to  
survive?

A. YES

B. NO

# Grade 4 Science ALT Directions for Test Administration (Teacher Book)

---

## Item Information

ETS Item Code: TAS01S0073	Content: Science
Item ID: 1069	Grade: 04
DOK Level: 2	Item Type: SR
Level: 1	Points: 1
Standard Code: 0407.2.1	AAT or UC: UC
Standard Text: Recognize the impact of predation and competition on an ecosystem.	
AAT or UC Text: Identify food that humans eat.	
Category: Interdependence, Biodiversity & Change	
Correct Answer: A	

---

This is about food.

Which of these do humans eat?

*Point to and read each option to the student.*

- A. vegetables
- B. rocks

**Item Information**

ETS Item Code: TAS01S0074	Content: Science
Item ID: 1070	Grade: 04
DOK Level: 3	Item Type: SR
Level: 2	Points: 1
Standard Code: 0407.2.1	AAT or UC: AAT
Standard Text: Recognize the impact of predation and competition on an ecosystem.	
AAT or UC Text: Identify whether a change in obtaining food will increase or decrease a species' chances of survival.	
Category: Interdependence, Biodiversity & Change	
Correct Answer: A	

---

This is about how living things get food.

Living things need energy to survive. Animals get energy from food.

What would a group of animals **most** likely do if they could **not** find food?

*Point to and read each option to the student.*

- A. move to a new place
- B. grow larger
- C. eat rocks

**Item Information**

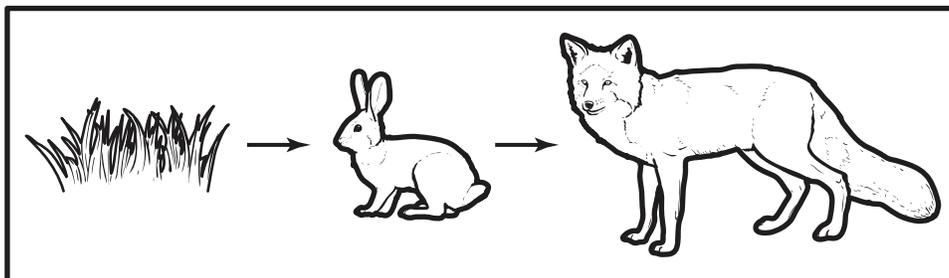
ETS Item Code: TAS01S0075	Content: Science
Item ID: 1071	Grade: 04
DOK Level: 4	Item Type: MP
Level: 3a	Points: 3
Standard Code: 0407.2.1	AAT or UC: AAT
Standard Text: Recognize the impact of predation and competition on an ecosystem.	
AAT or UC Text: Identify whether a change in obtaining food will increase or decrease a species' chances of survival.	
Category: Interdependence, Biodiversity & Change	
Correct Answer: A,B,B	

This is about how living things survive.

Living things need energy to survive. Plants get energy from the sun. Animals get energy from food.

*Point to the diagram.*

*[For all students, read "This is a diagram of a food chain. In this food chain, the grass is food for the rabbit. This helps the rabbit survive (point to the grass, then to the rabbit). The rabbit is food for the fox. This helps the fox survive (point to the rabbit, then to the fox)."]*



Use the food chain diagram to answer the questions.

*Point to and read each question to the student.*

If the foxes move away,  
will it be easier for rabbits  
to survive?

A. YES

B. NO

If the rabbits move away,  
will it be easier for foxes to  
survive?

A. YES

B. NO

If the grass goes away, will  
it be easier for foxes to  
survive?

A. YES

B. NO

**Item Information**

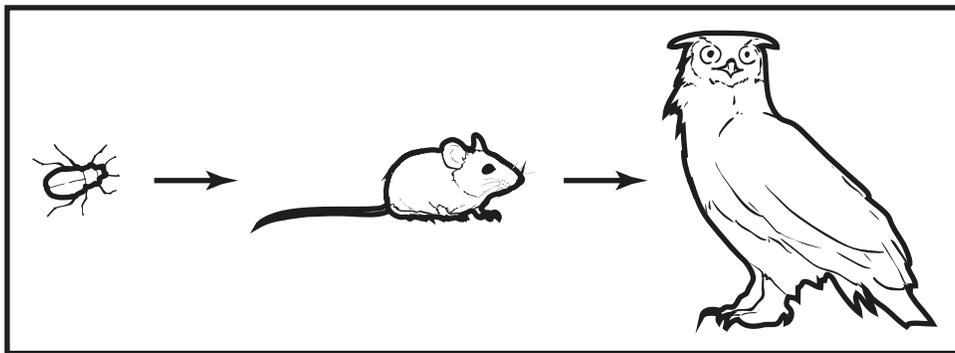
ETS Item Code: TAS01S0076	Content: Science
Item ID: 1072	Grade: 04
DOK Level: 4	Item Type: MP
Level: 3b	Points: 3
Standard Code: 0407.2.1	AAT or UC: AAT
Standard Text: Recognize the impact of predation and competition on an ecosystem.	
AAT or UC Text: Identify whether a change in obtaining food will increase or decrease a species' chances of survival.	
Category: Interdependence, Biodiversity & Change	
Correct Answer: B,A,A	

This is about how living things survive.

Living things need energy to survive. Animals get energy from food.

*Point to the diagram.*

*[For all students, read "This is a diagram of a food chain. In this food chain, the insect is food for the mouse. This helps the mouse survive (point to the insect, then the mouse). The mouse is food for the owl. This helps the owl survive (point to the mouse, then the owl)."]*



Use the food chain diagram to answer the questions.

*Point to and read each question to the student.*

If the owls move away, will it be harder for mice to survive?

A. YES

B. NO

If the mice move away, will it be harder for owls to survive?

A. YES

B. NO

If the insects move away, will it be harder for owls to survive?

A. YES

B. NO

**This page intentionally left blank.**

Tennessee Comprehensive  
Assessment Program TCAP  
Grade 4 Science  
Alternative Assessment  
Item Release  
Spring 2017

