



**PAWS
Reading
Grade 5**

**Released Items
With Data**

2010

Copyright © **2011** by the Wyoming Department of Education.

All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the Wyoming Department of Education.

Pearson and the *Pearson* logo are trademarks, in the U.S. and/or other countries, of Pearson Education, Inc. or its affiliate(s).

Portions of this work were previously published.

Printed in the United States of America.

Imagine your class is studying insects. Read "They Glow by Night" as if you were preparing to write a report about glowworms. After reading the article, answer the questions as if you were going to write your report.

They Glow by Night



- 1 Their eggs, sometimes numbering in the dozens, glow yellow-green in the moonlight. One of the adults guards the eggs. In some places an adult dangles from long, sticky strings, waiting for prey. The only light is the glow these creatures use to lure the unsuspecting. What are these strange beings? The living things described are "glowworms."
- 2 Glowworms are not worms. Many glowworms are the "larval," or newly hatched, and often wormlike form of fireflies. Fireflies usually glow at all cycles of their lives. They usually lay eggs on the ground in damp places, such as meadows and woodlands. Before the eggs start to glow, a female firefly guards them. She cannot defend the eggs, but her glow informs predators that the firefly eggs taste bad. Within a few weeks, the eggs begin to give off a yellow-green light.
- 3 Another type of glowworm actually uses its glow for an unfriendly purpose. The spider grub glowworm lives in Australia and New Zealand. This type of glowworm lives on the ceilings of caves, creating long threads that dangle like fishing lines. The blue-green light this glowworm gives off lures moths and other flying insects. Like the spider it is named for, this glowworm catches insects for food. Like a person fishing for trout, the spider grub glowworm waits for a tug on the line. The moment an insect lands on the sticky line, the glowworm actually reels in its catch.
- 4 In the United States as many as 170 types of glowworms light up the night. Some of them shine yellow-green, some amber, and still others blue-green. The light inside glowworms is produced by a mixture of chemicals meeting the air in the body. Glowworms control the amount of light they give off by reducing or increasing the amount of air in their chemical mixture.

18171

- 5 Should you be out late at night walking in a field and suddenly discover you are surrounded by glowing pods, do not panic! Just know you have stumbled upon a field of glowworms and get set to enjoy the light show!

3413423

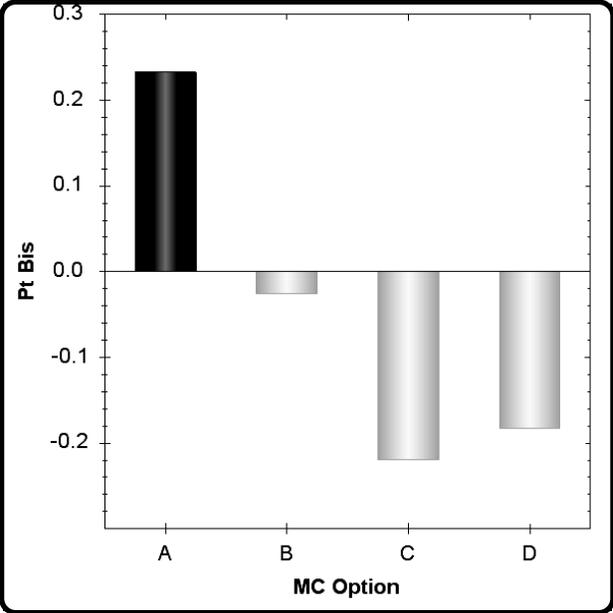
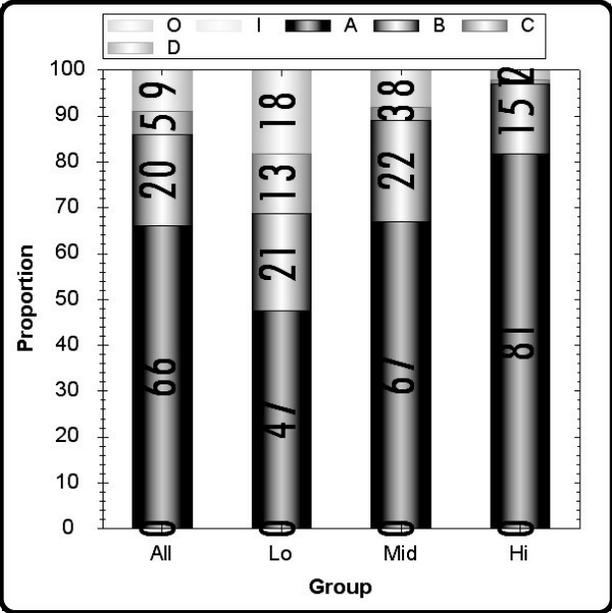
What is the main purpose of Paragraph 2?

- A.** To explain the larval stage in the life cycle of glowworms
- B.** To explain the difference between adult and newly hatched glowworms
- C.** To explain how many eggs a glowworm lays
- D.** To explain how glowworms give off light

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	A	6261	0.663	0.233

	A	B	C	D	Omit	Invalid
All	66	20	5	9	0	0
Low Scorers	47	21	13	18	0	0
Middle Scorers	67	22	3	8	0	0
High Scorers	81	15	1	2	0	0

MC Item Option Discriminations			
A	B	C	D
0.233	-0.026	-0.219	-0.183



Notes:

3413427

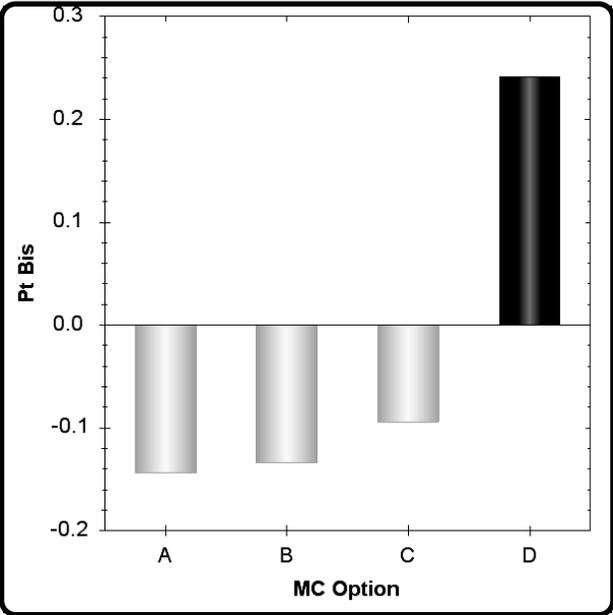
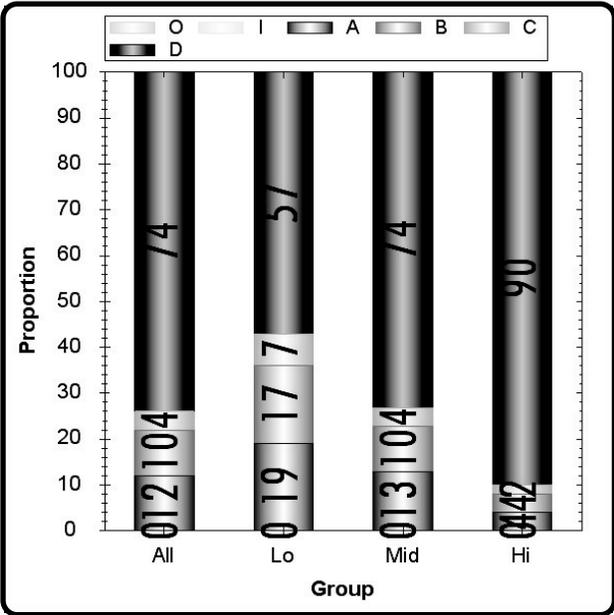
Which of these best describes what newly hatched fireflies resemble?

- A.** Spiders
- B.** Moths
- C.** Beetles
- D.** Worms

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6261	0.741	0.241

	A	B	C	D	Omit	Invalid
All	12	10	4	74	0	0
Low Scorers	19	17	7	57	0	0
Middle Scorers	13	10	4	74	0	0
High Scorers	4	4	2	90	0	0

MC Item Option Discriminations			
A	B	C	D
-0.144	-0.134	-0.094	0.241



Notes:

3413425

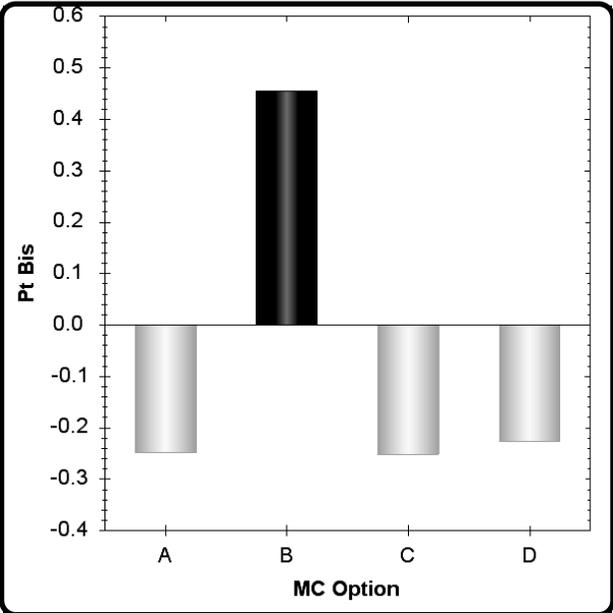
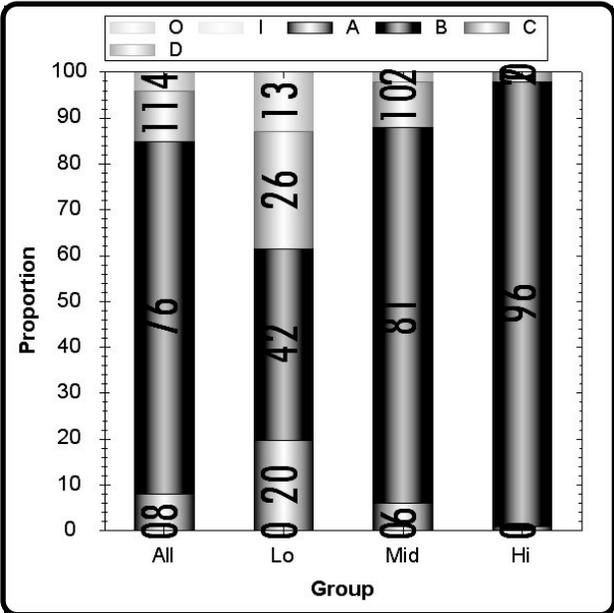
According to the article, how is a glowworm like someone who fishes?

- A.** Both put bait on the end of their line.
- B.** Both reel in the line when they feel a tug.
- C.** Both use a long, sticky line to attract their catch.
- D.** Both cast their line many times before making a catch.

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	B	6261	0.762	0.455

	A	B	C	D	Omit	Invalid
All	8	76	11	4	0	0
Low Scorers	20	42	26	13	0	0
Middle Scorers	6	81	10	2	0	0
High Scorers	1	96	2	0	0	0

MC Item Option Discriminations			
A	B	C	D
-0.248	0.455	-0.251	-0.227



Notes:
 Non LEP students may perform better on this item as compared to LEP students. (C)

3413430

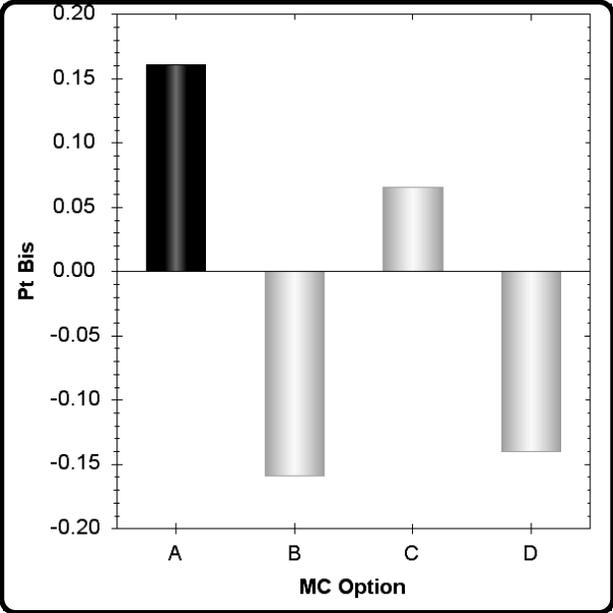
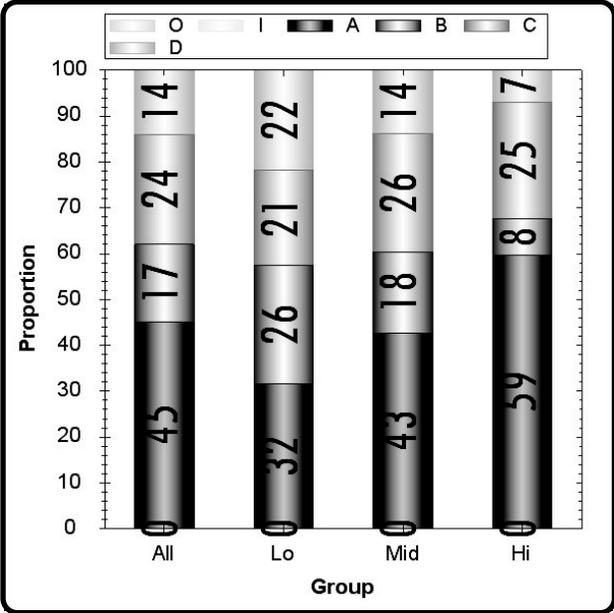
Which idea can the reader conclude based on Paragraph 3?

- A.** Spider grub glowworms capture insects mainly when it is dark.
- B.** Spider grub glowworms use smaller insects as bait for catching larger insects.
- C.** Spider grub glowworms primarily eat moths.
- D.** Spider grub glowworms produce a brighter glow than other glowworms.

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	A	6261	0.447	0.161

	A	B	C	D	Omit	Invalid
All	45	17	24	14	0	0
Low Scorers	32	26	21	22	0	0
Middle Scorers	43	18	26	14	0	0
High Scorers	59	8	25	7	0	0

MC Item Option Discriminations			
A	B	C	D
0.161	-0.159	0.066	-0.140



Notes:
Option C has positive discrimination. Check option for ambiguity/correctness.

3413422

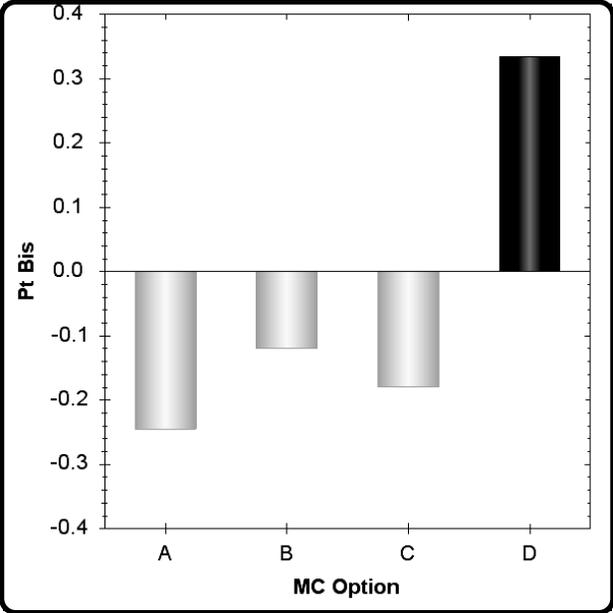
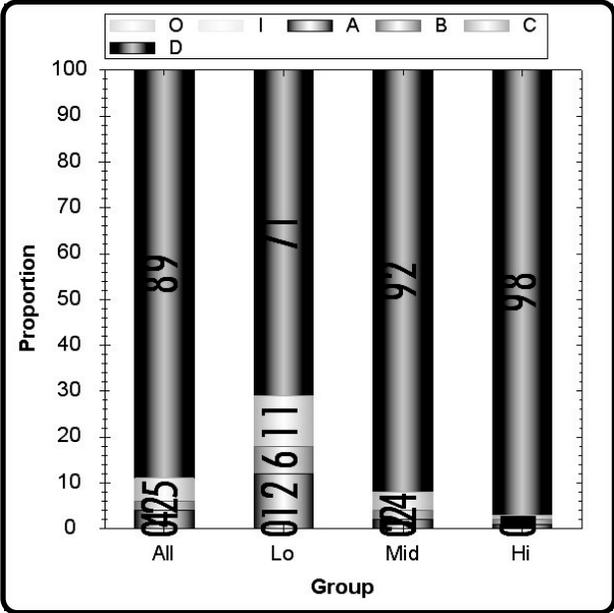
What is the article mainly about?

- A.** How an insect protects its eggs
- B.** An insect that lives in caves
- C.** How an insect catches its food
- D.** An insect that produces light

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6261	0.889	0.334

	A	B	C	D	Omit	Invalid
All	4	2	5	89	0	0
Low Scorers	12	6	11	71	0	0
Middle Scorers	2	2	4	92	0	0
High Scorers	1	1	1	98	0	0

MC Item Option Discriminations			
A	B	C	D
-0.245	-0.120	-0.179	0.334



Notes:

White students may perform better on this item as compared to Am. Indian students. (B)

3413438

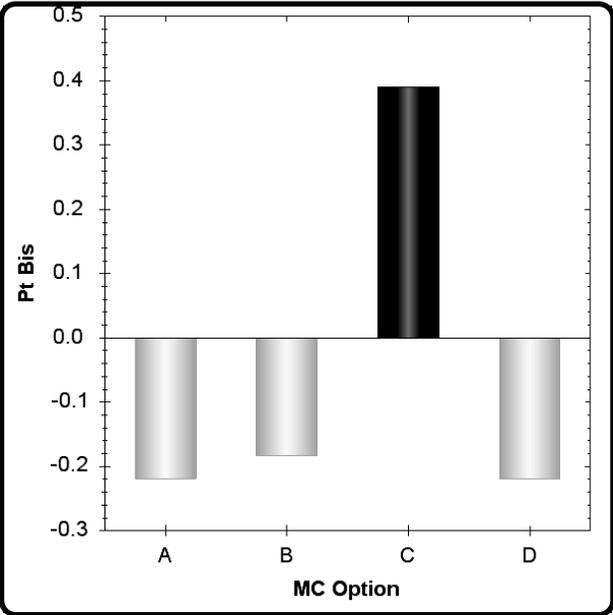
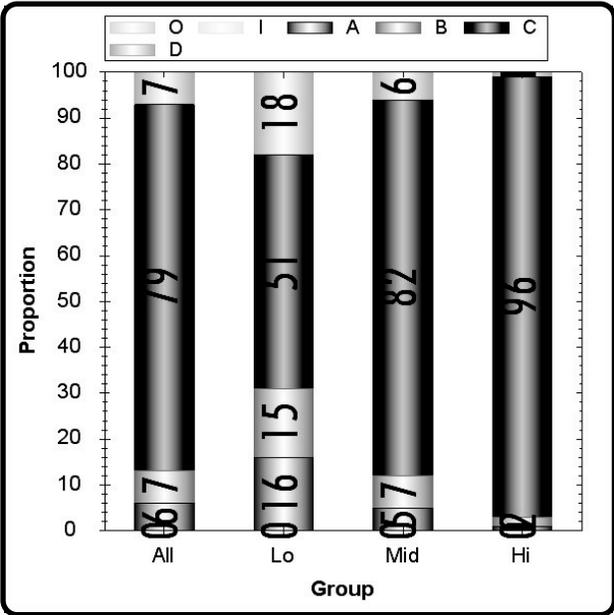
In addition to this article, which is the best source to use to write a report about glowworms?

- A.** A dictionary entry defining the word "larval"
- B.** An atlas showing where glowing insects live
- C.** An encyclopedia entry describing the characteristics of glowworms
- D.** A magazine article discussing insects that prey on glowworm eggs

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	C	6261	0.789	0.391

	A	B	C	D	Omit	Invalid
All	6	7	79	7	0	0
Low Scorers	16	15	51	18	0	0
Middle Scorers	5	7	82	6	0	0
High Scorers	1	2	96	1	0	0

MC Item Option Discriminations			
A	B	C	D
-0.219	-0.183	0.391	-0.220



Notes:
 Non SPED students may perform better on this item as compared to SPED students. (B)

3413432

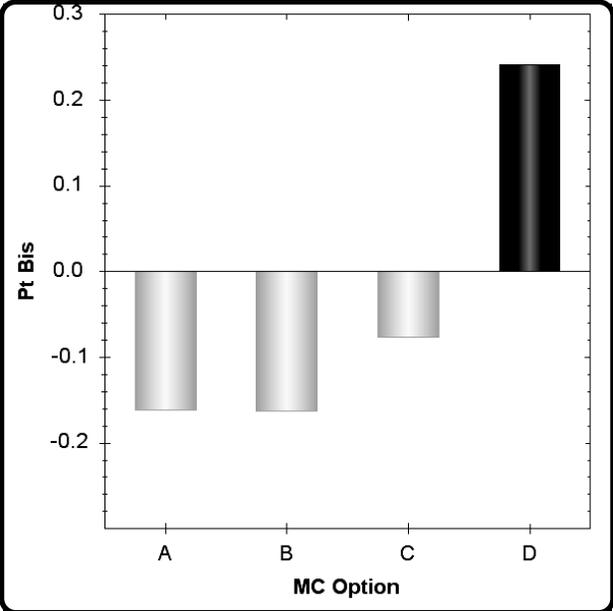
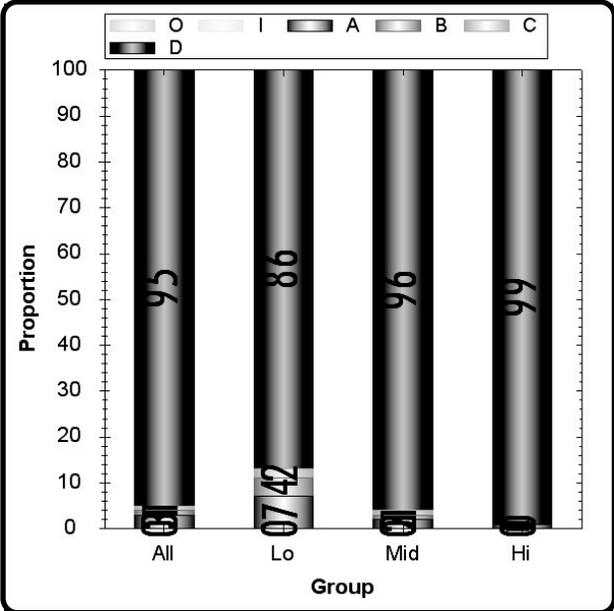
Which of these would be the best choice as a new title for this article?

- A.** "Bugs of Australia"
- B.** "Catching Insects"
- C.** "Sticky Spiders"
- D.** "Amazing Glowworms"

Type	Max Points	Correct Answer	N Count	Item Mean	Discrimination
Multiple Choice	1	D	6261	0.948	0.242

	A	B	C	D	Omit	Invalid
All	3	1	1	95	0	0
Low Scorers	7	4	2	86	0	0
Middle Scorers	2	1	1	96	0	0
High Scorers	1	0	0	99	0	0

MC Item Option Discriminations			
A	B	C	D
-0.162	-0.163	-0.076	0.242



Notes:

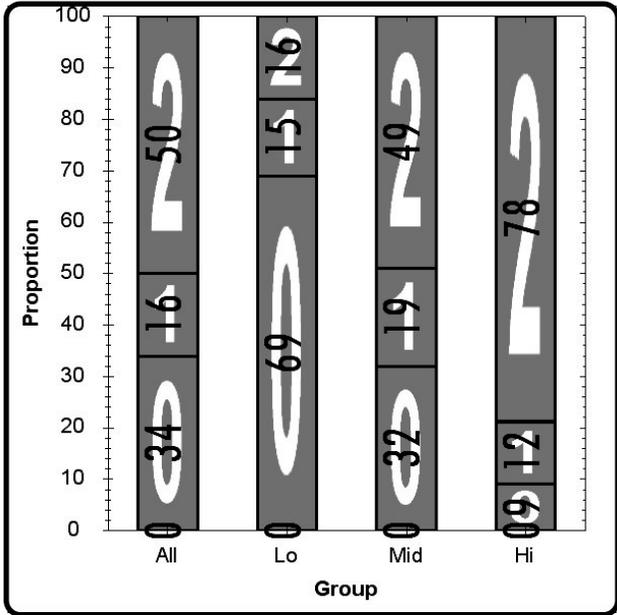
White students may perform better on this item as compared to Am. Indian students. (B)

Non SPED students may perform better on this item as compared to SPED students. (B)

How do glowworms adjust the brightness of their light?

Type SR	Max Points 2	N Count 6261	Item Mean 1.154	Discrimination 0.435
------------	-----------------	-----------------	--------------------	-------------------------

	0	1	2	Omit	Invalid
All	34	16	50	0	0
Low Scorers	69	15	16	0	0
Middle Scorers	32	19	49	0	0
High Scorers	9	12	78	0	0



Notes:

2. How do glowworms adjust the brightness of their light?

Glowworms adjust to the brightness of their light by increasing or decreasing the amount of air in the section of them that contains the chemicals. Those chemicals create the light. The glowworm can adjust the light by increasing or decreasing air.

Paper 1
Score Point 2

The response provides a sufficient explanation of how glowworms adjust the brightness of their light (. . . *by increasing or decreasing the amount of air in the section that contains chemicals*). The response also generally explains how the light is created (. . . *Those chemicals create the light*) which enhances the overall completeness of the response. All essential details are logical, relevant and sufficient to support the reader's position.

2. How do glowworms adjust the brightness of their light?

The glowworms adjust their light
by the chemicals in their body and
the air.

Paper 2

Score Point 1

The response provides a general explanation of how glowworms adjust the brightness of their light (. . . *by the chemicals in their body and air*). However, the explanation is only somewhat relevant and the level of detail is insufficient to support the reader's position because it does not explain how these two components affect the level of brightness.

2. How do glowworms adjust the brightness of their light?

If they get mad their light increases.

Paper 3

Score Point 0

The response attempts to address the task (*If they get mad their light increases*), but the information incorrectly explains how glowworms adjust the brightness of their light.

