



# **PAWS**

# **Reading**

# **Grade 5**

## **Released Items**

## **With Data**

**2015**

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## Reading Released Items with Data Introduction Page / Data Definitions

This Released Items with Data document provides a subset of items from the 2014 administration of the PAWS test. The data for an item is on the page that follows that item. The following provides definitions for the data fields on the data page.

### **Passage Information:**

**Passage Accnum:** Vendor identification code assigned to the passage

**Title:** Title of the passage/stimulus

**Passage Ext. ID:** Identification code assigned to the passage

**Passage/Text Type:** Mode or genre of passage (i.e.: informational/expository)

### **Item Information**

**Title:** Title of the passage/stimulus the item belongs to

**Passage/Text Type:** Mode or genre of passage

**2012 WyCPS Domain:** Reporting category of the state content standards

**2012 WyCPS Standard:** State content standard

**Item Code:** Identification code assigned to the item

**Admin:** The year an item is administered

**Item Type:** The mode in which a student responds (MC means multiple-choice)

**Correct Answer:** The option letter (A, B, C, or D) that corresponds to the correct answer

**Item Dok:** The item's Depth of Knowledge designation, also called Cognitive Complexity;

1 - Recall and reproduction

2 - Skills and concepts

3 - Strategic and extended thinking

**Total N-count:** Number of students counted as taking the test in which the item appears during the listed administration (Includes item omissions)

**Pvalue/Mean Score:** For a multiple-choice item, the percent of students choosing the correct answer

### **Score Analysis**

**MC Row:** Answer options available for students to choose from (including those who do not choose any option); an asterisk designates the correct answer

**%Choosing Row:** Percent of students choosing an option (or omitting)

**Item Notes:** Area where user can make notes

Passage Accnum:	VF657188	Title:	Farming in Space	Passage Ext. ID:	WYR25P20
Passage/Text Type:	Informational/Expository				

## Farming in Space

by Amy Hansen



Courtesy of NASA

- 1 What will astronauts eat when a space voyage takes years or even decades?
- 2 "Lots of fresh vegetables," says Dr. Mary Musgrave of the University of Massachusetts. She has spent the last 10 years learning how to grow plants in space. And it's a good thing she has already started her work because extraterrestrial gardening can be tricky.
- 3 In 1997, while the Mir Space Station spun around Earth, astronaut Mike Foale peered at a sealed growth chamber. The astronaut had planted Dr. Musgrave's quick-growing seedlings in the chamber, but none of the stems were showing.

### Confused Plants

- 4 He opened the container and saw the problem. The white stems weren't growing upward. Instead, they threaded downward or sideways. Some of the roots snaked up, while others twisted around. These were confused plants.

- 5 On Earth, a plant's roots and stems take cues from gravity, using the Earth's pull to find "up" and "down." This process is called *gravitropism*. On the Mir, there was almost no gravity.
- 6 Dr. Musgrave suggested a solution: give the plants more light. This idea made sense because plants also use sunlight to find their way—a process called *phototropism*.
- 7 And it worked. Once the seedlings had more light, the stems turned up and the roots went down.
- 8 Now Dr. Musgrave was free to worry about the next problem. Would her baby plants live to flower?

### **Starving for Air**

- 9 Many plants died in space. But Dr. Musgrave thought she knew why. She thought the space plants were starving for air.
- 10 Plants live by taking up carbon dioxide from the air. Since a plant uses up this gas in the air around it, the plant needs air currents to bring more carbon dioxide close to its surface.
- 11 On Earth, the air is always moving. Gravity pulls down cold air, and warm, lightweight air rises. So the air is shifting even when we can't feel a breeze. And with these shifts, plants get plenty of carbon dioxide.

### **Air Currents**

- 12 Many earlier experiments with plants in space had used closed chambers. On the Mir Space Station, Dr. Musgrave tried a new greenhouse that had a fan pulling in a constant supply of the air inside the space station.
- 13 The plants loved it. They flowered and even produced more seeds, which Mike Foale was able to plant and grow. Using Dr. Musgrave's method, he completed the first seed-to-seed experiment in space, and moved one plant closer to an extraterrestrial garden.
- 14 "And this," says Dr. Musgrave, "is good news for long-term space travel."

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**00** Read this sentence from Paragraph 12.

**On the Mir Space Station, Dr. Musgrave tried a new greenhouse that had a fan pulling in a constant supply of the air inside the space station.**

**Which word means the same as “constant” as used in the sentence?**

- (A) Fast
- (B) True
- (C) Steady
- (D) Definite

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Vocabulary Acquisition and Use
<b>2012 WyCPS Standard:</b>	L.5.4a Use context (e.g., cause/effect relationships and comparisons in text) as a clue to the meaning of a word or phrase.
<b>Item Code:</b>	VF814956

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	C	2	697	0.521

Score Analysis					
MC	A	B	C*	D	Omit
%Choosing	26.973	3.874	52.08	16.499	0.574

Item Notes

**00** Read these sentences from Paragraph 4.

Instead, they threaded downward or sideways. Some of the roots snaked up, while others twisted around.

Which word is a synonym for “threaded” as used in the sentence?

- (A) Combined
- (B) Mixed
- (C) Blended
- (D) Twisted

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Vocabulary Acquisition and Use
<b>2012 WyCPS Standard:</b>	L.5.4a Use context (e.g., cause/effect relationships and comparisons in text) as a clue to the meaning of a word or phrase.
<b>Item Code:</b>	VF814958

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	D	2	705	0.609

Score Analysis					
MC	A	B	C	D*	Omit
%Choosing	15.319	13.333	9.929	60.851	0.567

Item Notes

**00** Which sentence from the passage best supports the main idea in the “Starving for Air” section?

- (A) Plants live by taking up carbon dioxide from the air.
- (B) On Earth, the air is always moving.
- (C) Gravity pulls down cold air, and warm, lightweight air rises.
- (D) So the air is shifting even when we can’t feel a breeze.

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Key Ideas and Details
<b>2012 WyCPS Standard:</b>	RI.5.1 Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.
<b>Item Code:</b>	VF814960

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	A	2	705	0.824

Score Analysis					
MC	A*	B	C	D	Omit
%Choosing	82.411	6.383	7.943	2.979	0.284

Item Notes

**00 Which sentence from the passage best supports the fact that Dr. Musgrave is determined?**

- (A) "Lots of fresh vegetables," says Dr. Mary Musgrave of the University of Massachusetts.
- (B) Dr. Musgrave suggested a solution: give the plants more light.
- (C) Now Dr. Musgrave was free to worry about the next problem.
- (D) "And this," says Dr. Musgrave, "is good news for long-term space travel."

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Key Ideas and Details
<b>2012 WyCPS Standard:</b>	RI.5.1 Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.
<b>Item Code:</b>	VF814963

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	C	2	697	0.242

Score Analysis					
MC	A	B	C*	D	Omit
%Choosing	12.482	37.59	24.247	25.395	0.287

Item Notes

**00 Which of these is the best summary of this passage?**

- (A) Gardens in space will be common in future space travel.
- (B) A scientist discovers how to successfully grow plants in space.
- (C) Astronauts are concerned plants will die during space travel.
- (D) A scientist will make space travel more comfortable for astronauts.

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Key Ideas and Details
<b>2012 WyCPS Standard:</b>	RI.5.2 Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.
<b>Item Code:</b>	VF814968

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	B	2	697	0.673

Score Analysis					
MC	A	B*	C	D	Omit
%Choosing	17.934	67.288	8.034	5.882	0.861

Item Notes

**00 How was Dr. Musgrave finally able to grow plants successfully in space?**

- (A) By relying on astronauts and previous research
- (B) By growing plants on Earth and on the Mir Space Station
- (C) By using more water and a sealed chamber
- (D) By adding more light and air flow

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Key Ideas and Details
<b>2012 WyCPS Standard:</b>	RI.5.2 Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text.
<b>Item Code:</b>	VF814970

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	D	2	705	0.782

Score Analysis					
MC	A	B	C	D*	Omit
%Choosing	3.262	7.66	10.638	78.156	0.284

Item Notes

**00 According to the passage, what happens if plants do not get enough air?**

- (A) The plants will not flower.
- (B) The roots grow downward.
- (C) The stems will not grow upward.
- (D) The flowers produce more seeds.

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Key Ideas and Details
<b>2012 WyCPS Standard:</b>	RI.5.3 Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.
<b>Item Code:</b>	VF814961

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	A	2	697	0.663

Score Analysis					
MC	A*	B	C	D	Omit
%Choosing	66.284	8.895	22.095	2.296	0.43

Item Notes

**00** **What was the effect of putting the plants in a greenhouse with a fan?**

- (A) The stems grew downward and sideways.
- (B) The roots grew upward or twisted around.
- (C) The plants flowered and grew more seeds.
- (D) The space plants were starving for air.

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Key Ideas and Details
<b>2012 WyCPS Standard:</b>	RI.5.3 Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.
<b>Item Code:</b>	VF814977

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	C	2	705	0.675

Score Analysis					
MC	A	B	C*	D	Omit
%Choosing	9.22	10.496	67.518	12.624	0.142

Item Notes

**00** Read this sentence from Paragraph 3.

**The astronaut had planted Dr. Musgrave's quick-growing seedlings in the chamber, but none of the stems were showing.**

**According to the sentence, what is a "seedling"?**

- (A) A delicate plant
- (B) A young plant
- (C) A bright plant
- (D) A different plant

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Craft and Structure
<b>2012 WyCPS Standard:</b>	RI.5.4 Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.
<b>Item Code:</b>	VF814975

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	B	2	697	0.885

Score Analysis					
MC	A	B*	C	D	Omit
%Choosing	5.022	88.522	2.296	3.587	0.574

Item Notes

**00 How does the author organize the information in the passage?**

- (A) Problem and solution
- (B) Compare and contrast
- (C) Order of importance
- (D) Cause and effect

Item Information	
<b>Title:</b>	Farming in Space
<b>Passage/Text Type:</b>	Informational/Expository
<b>2012 WyCPS Domain:</b>	Craft and Structure
<b>2012 WyCPS Standard:</b>	RI.5.5 Compare and contrast the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in two or more texts.
<b>Item Code:</b>	VF814973

Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	A	2	705	0.614

Score Analysis					
MC	A*	B	C	D	Omit
%Choosing	61.418	4.255	9.22	24.681	0.426

Item Notes

**00** Read this sentence from Paragraph 14.

**"And this," says Dr. Musgrave, "is good news for long-term space travel."**

**Why does Dr. Musgrave say this is good news?**

- (A) Astronauts like to garden in space.
- (B) Gardens will now be easier to grow.
- (C) Space voyages may soon be many years long.
- (D) The plants need to have more time to grow.

Item Information					
Title:	Farming in Space				
Passage/Text Type:	Informational/Expository				
2012 WyCPS Domain:	Integration of Knowledge and Ideas				
2012 WyCPS Standard:	RI.5.8 Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point(s).				
Item Code:	VF814962				
Admin:	Item Type:	Correct Answer:	Item Dok:	Total N-count:	Pvalue/Mean Score:
Spring 2014	MC	C	2	705	0.516

Score Analysis					
MC	A	B	C*	D	Omit
%Choosing	7.943	33.191	51.631	6.95	0.284

Item Notes

