PUZZLEWISE™

School/Home Edition

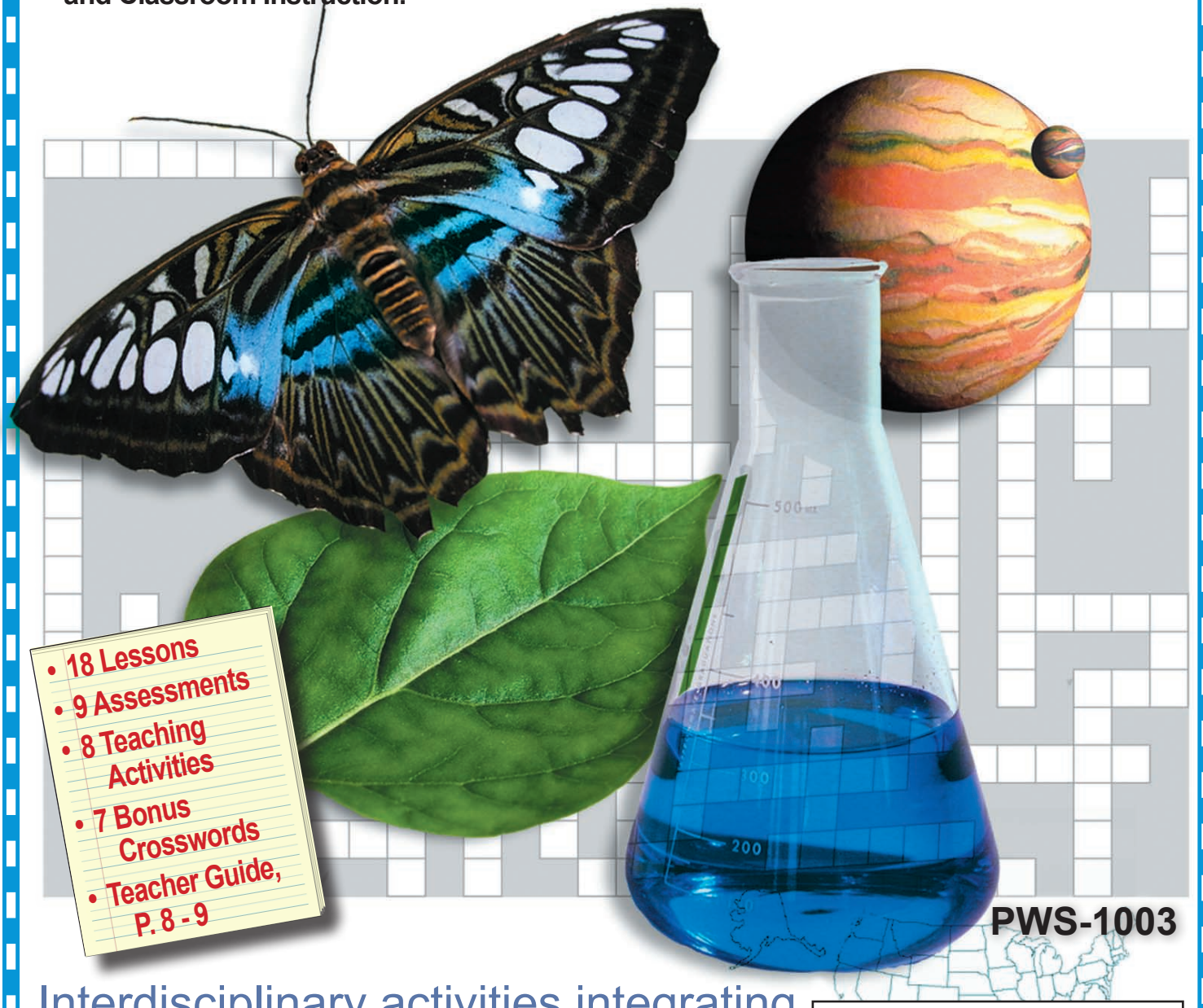
Supports **NSEA** and **state** standards.

SCIENCE

Standards Based Science Literacy Program

The Building Block to Test Preparation, Science Inquiry, and Classroom Instruction.

Level 3
2009 Edition



- 18 Lessons
- 9 Assessments
- 8 Teaching Activities
- 7 Bonus Crosswords
- Teacher Guide, P. 8 - 9

PWS-1003

Interdisciplinary activities integrating science, reading, and writing!

Student Name:

TABLE OF CONTENTS, LEVEL 3 SCIENCE

PuzzleWise™ Level 3 Correlations with NSEA Science Content Standards: K – 4

PuzzleWise™ Lessons	Science	Category	A: Science as Inquiry	B: Physical Science	C: Life Science	D: Earth & Space Science	E: Science and Technology	F: Personal and Social Perspectives	G: History and Nature of Science
1. Flowers	Life	Plants			●				
2. Airplanes	Physical	Force / Energy		●		●	●		
3. Solar System	Earth	Astronomy				●			
4. Volcanoes	Earth	Geology				●			
5. Water Cycle	Earth	Weather				●			
6. Measurement	Inquiry	Application	●				●		
7. Skeletal System	Life	Human Body			●			●	
8. Mountain Goats	Life	Animals			●				
9. Scientific Investigation	Inquiry	Application	●		●				●
10. Earthworms	Life	Animals			●				
11. Ants	Life	Animals			●				
12. Summaries & Conclusions	Inquiry	Application	●						●
13. States of Matter	Physical	Chemistry		●					
14. Plants and Seeds	Life	Plants			●				
15. Bats	Life	Animals			●				
16. Magnets	Physical	Magnets & Electricity		●					
17. Types of Rocks	Earth	Geology				●			
18. Scientific Design	Inquiry	Application	●				●		●
19. Fish Tank Fun	Life	Ecosystems			●				
20. Mixtures	Physical	Chemistry		●					
21. Whales	Life	Animals			●				
22. Ecosystems	Life	Ecosystems			●			●	
23. Producers	Life	Plants			●				
24. Comparing Data	Inquiry	Application	●						●
25. Hand Tools	Physical	Technology		●			●		
26. Pencils	Physical	Technology		●			●		

PuzzleWise™ Level 3 Correlations with Science Kits

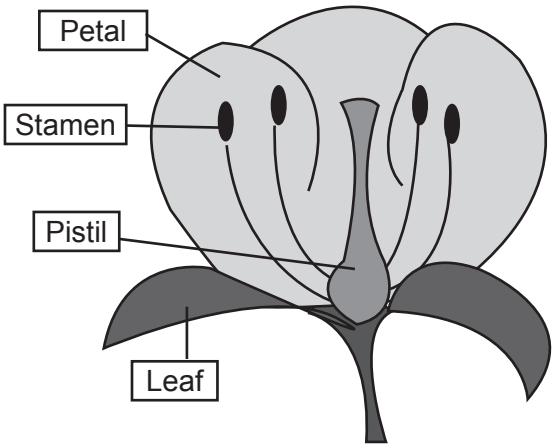
Lesson	PuzzleWise™ Articles	Science	Category	STC	Foss	Insights
1	Flowers	Life	Plants	Plant Growth & Development		Growing Things
2	Airplanes	Physical	Force / Energy			Lifting Heavy Things
3	Solar System	Earth	Astronomy			
4	Volcanoes	Earth	Geology			
5	Water Cycle	Earth	Weather			
6	Measurement	Inquiry	Application		Measurement	
7	Skeletal System	Life	Human Body		Human Body	
8	Mountain Goats	Life	Animals		Structures of Life	
9	Scientific Investigation	Inquiry	Application			Growing Things
10	Earthworms	Life	Animals		Structures of Life	
11	Ants	Life	Animals		Structures of Life	
12	Summaries/Conclusions	Inquiry	Application			
13	States of Matter	Physical	Chemistry		Water	
14	Plants and Seeds	Life	Plants	Plant Growth & Development		Growing Things
15	Bats	Life	Animals			
16	Magnets	Physical	Magnetism/Electricity		Magnetism/Electricity	
17	Types of Rocks	Earth	Geology	Rocks & Minerals	Earth Materials	Rocks, Minerals, Soil
18	Scientific Design	Inquiry	Application			
19	Fish Tank Fun	Life	Ecosystems		Water	Habitats
20	Mixtures	Physical	Chemistry	Chemical Tests		Liquids
21	Whales	Life	Animals			
22	Ecosystems	Life	Ecosystems			Habitats
23	Producers	Life	Plants	Plant Growth & Development		
24	Comparing Data	Inquiry	Application			
25	Hand Tools	Physical	Technology		Ideas & Inventions	
26	Pencils	Physical	Technology		Ideas & Inventions	

Flowers

Lesson 1, Article.

Life Science, Plants. R: 3.2

Flowers are amazing! There are many kinds. Some flowers grow on a stem. Others grow on bushes and trees. Flowers grow on almost every **continent** (con-tin-ent) on Earth. Flowers come in all colors! Some flowers bloom once a year, while others bloom all year. Where do you find flowers? Plants with flowers grow in the **desert** (dez-ert), in the **rainforest** (rain-for-est), and even in **ponds**.

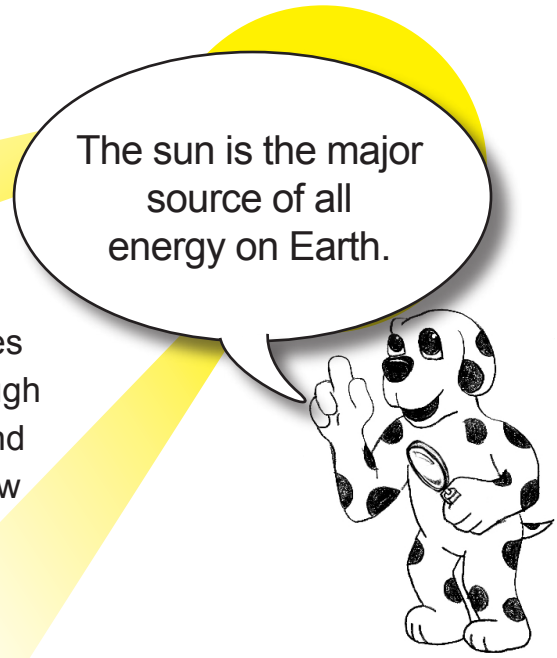


Parts of a Flower

Flowers are part of **a living system** (sys-tem) that helps **plants** make **seeds**. The flower uses colorful petals that smell good to attract **insects** and birds. Inside the flower is **nectar** (nek-tar). Insects and birds drink the nectar. On the **stamen** (sta-men) is **pollen** (pol-len). Insects and birds carry pollen from flower to flower. Pollen sticks to the **pistil**. The pollen is used by the flowers to make seeds.

A Living System

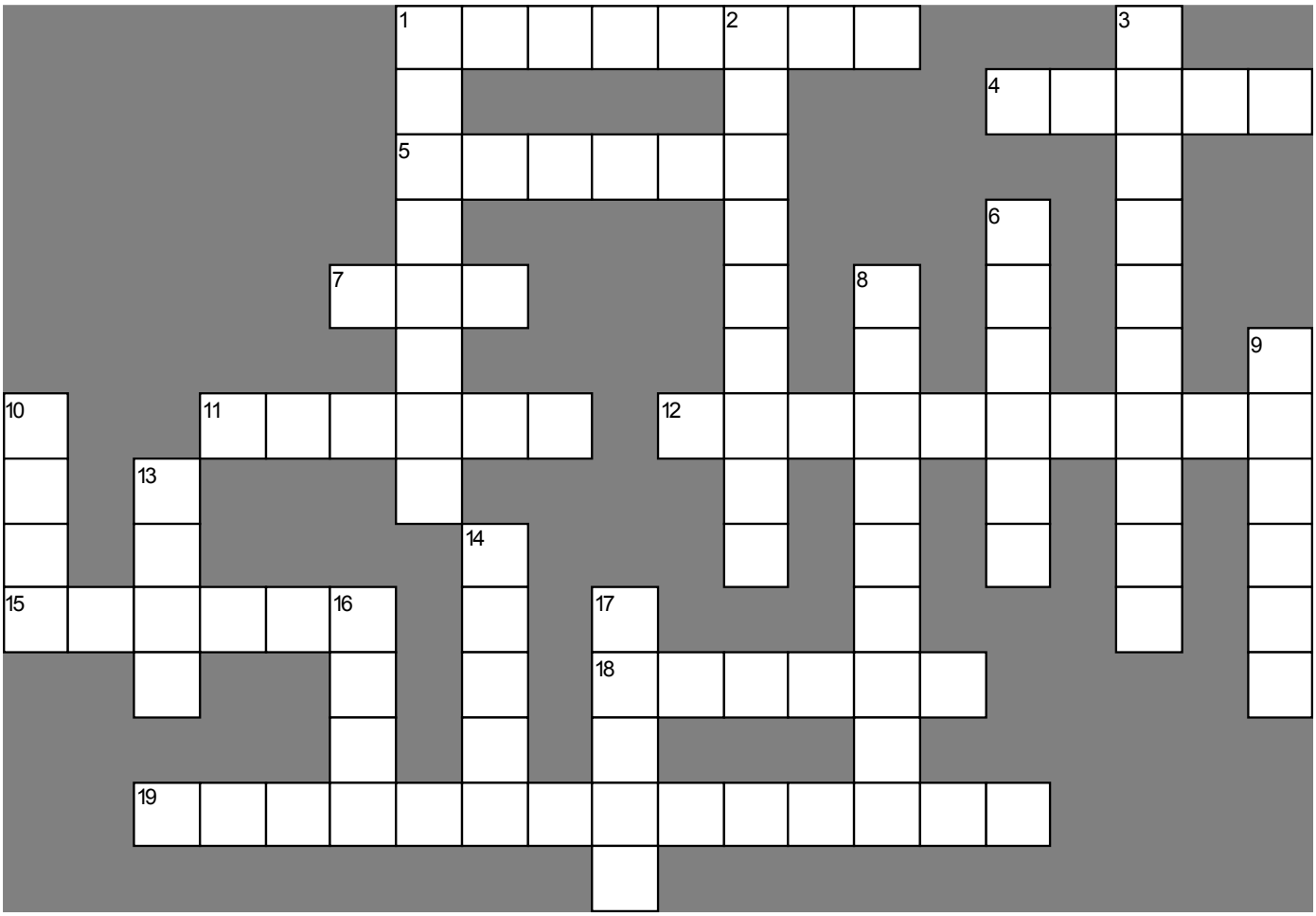
All flowers are part of a plant **system**. Plants are **producers** (pro-du-cers) because they produce (make) **food** from the sun's **energy**. Plants use **water**, **sunlight,** and carbon dioxide to make food. This process is called **photosynthesis** (pho-to-syn-the-sis). The leaves collect light from the sun. Roots collect water and **minerals** (min-er-als). The plant uses water to carry **mineral nutrients** (new-tree-ents) through the stem up to the leaves. Water helps the stems stand up so leaves can collect sunlight. Short plants can now compete with taller plants for sunlight, water, mineral nutrients, and room to grow.



Be wise! Reading non-fiction is a smart idea. Suggested readings: P. 47, P. 84.

Lesson 1

/20



ACROSS

1 A living object that produces its own food through photosynthesis.

4 Data is recorded on a ___.★

5 A gas, important for the survival of animals. P. 110.

7 The source of energy for all life on Earth.

11 Dry areas with extreme heat by day and extreme cold at night.

12 A form of energy that comes from the sun. (2 words.) (h___ e___) P. 57.

15 Part of the plant that makes seeds.

18 A ___ system is a set of parts that keep an organism alive. (l___)

19 The process of plants making their own food energy from the sun's light energy.

DOWN

1 The organism at the beginning of every food chain. P. 57.

2 Large land mass.

3 This region is wet, warm, and full of wildlife.

6 ___ supply animals with oxygen. (P___)

8 ___ are absorbed by roots. (Mineral n___)

9 A ___ is made of parts that work together to do a job. (s___)

10 The part of the plant that makes food through photosynthesis.

13 Plants can make their own ___.

14 Smallest units of life that can grow. P. 106

16 The part of the plant that absorbs water and mineral nutrients from the soil.

17 Able to make its own food from the sun's energy. (p___) P. 57.

Parent/Guardian Signature:

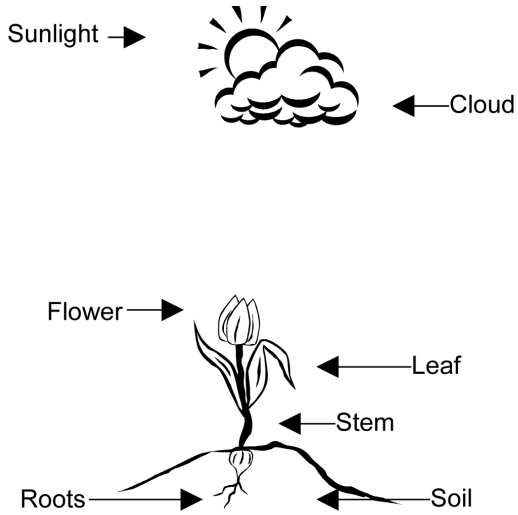
Date Due:

1. What is the source of energy for the tulip below?
   - ○ A. The roots
   - ○ B. The soil
   - ○ C. The sunlight

2. What type of measuring tool would be needed to answer the investigative question, *"How does the amount of light affect the length of the roots?"*
   - ○ A. Clock
   - ○ B. Ruler
   - ○ C. Thermometer

3. How would removing parts of the tulip system below affect the ability of the plant to grow and be healthy?
   - Identify the two **parts** of the system you removed.
   - Explain how removing each of these parts would affect the growth of the plant.

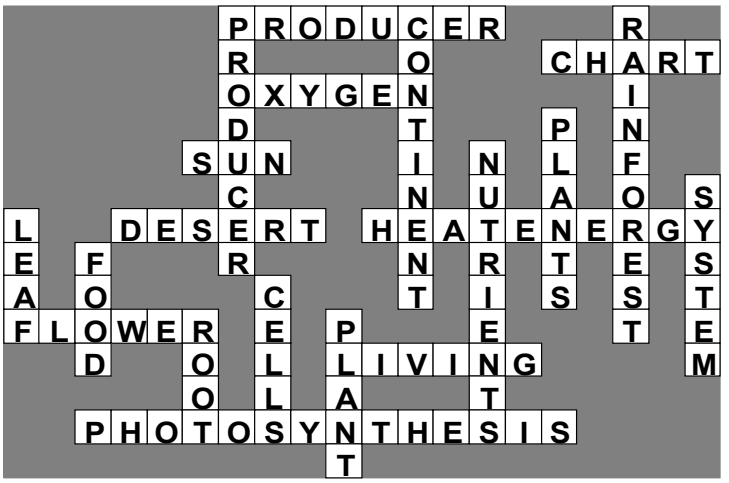
Tulip System



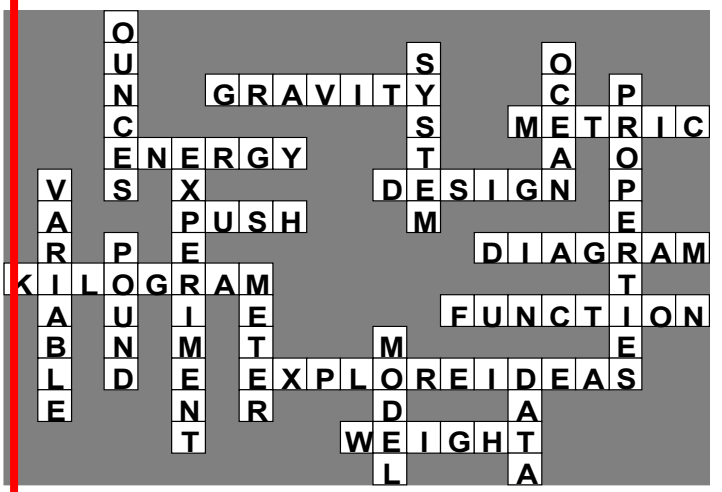
1a). Part removed:
1b). How would this affect the ability of the plant to grow and be healthy?
2a). Part removed:
2b). How would this affect the ability of the plant to grow and be healthy?

Keys: Crossword Puzzles

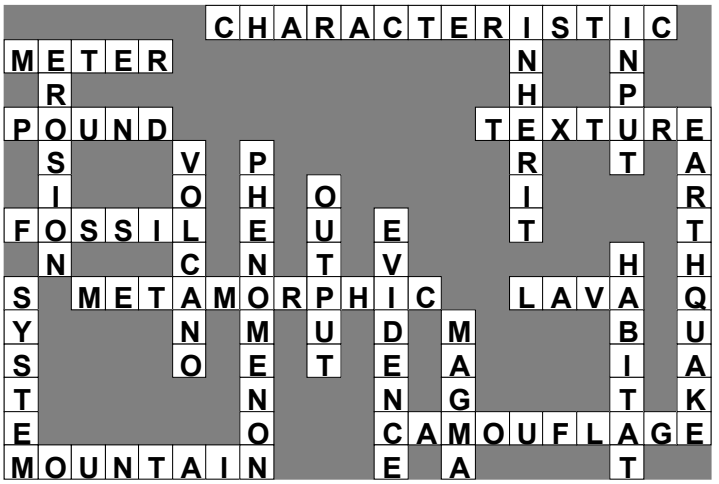
Lesson 1, P. 13



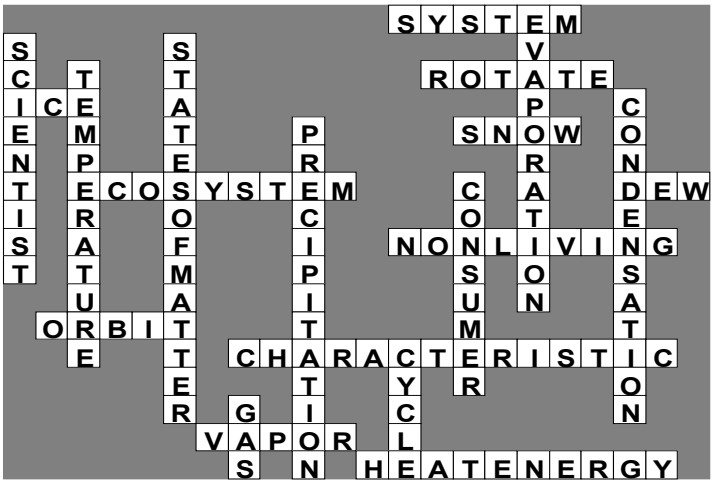
Lesson 2, P. 16



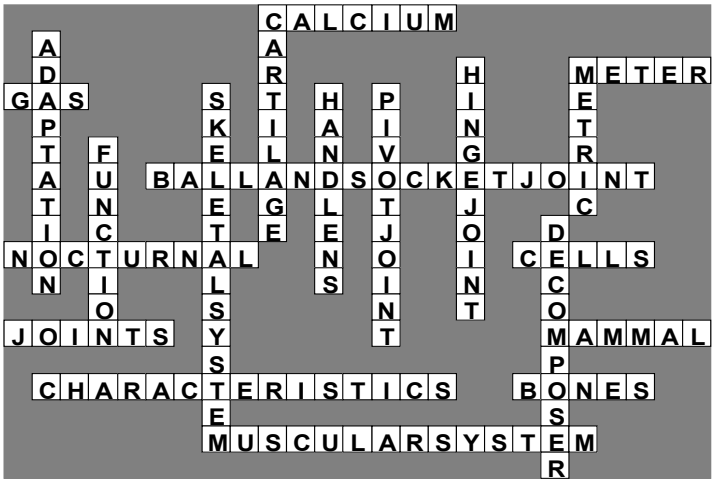
Lesson 3, P. 23



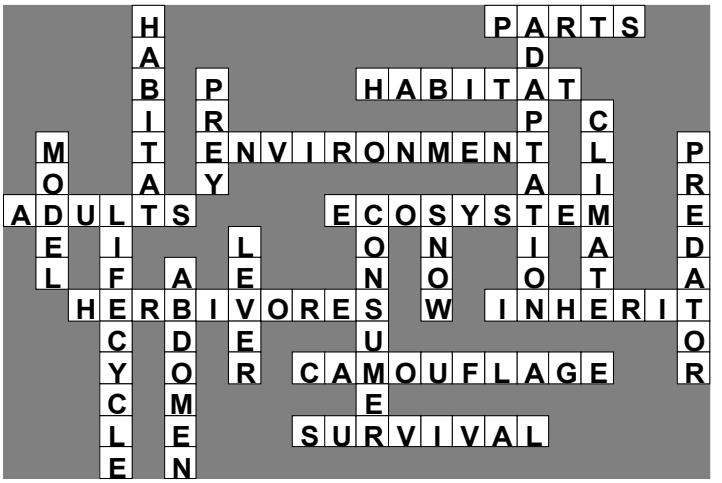
Lesson 4, P. 26



Lesson 5, P. 33



Lesson 6, P. 36



Keys: Multiple Choice Activities

Lesson 1 (P.14):
1. C
2. B

Lesson 2 (P.17):
1. C
2. A

Lesson 3 (P.24):
1. C
2. B

Lesson 4 (P.27):
1. A
2. C

Lesson 5 (P.34):
1. C
2. B

Lesson 6 (P.37):
1. C
2. A

Lesson 7 (P.46):
1. B
2. B

Lesson 8 (P.49):
1. B
2. C

Lesson 9 (P.56):
1. B
2. B

Lesson 10 (P.59):
1. B
2. A

Lesson 11 (P.66):
1. B
2. A

Lesson 12 (P.69):
1. C
2. C

Lesson 13 (P.78):
1. A
2. C

Lesson 14 (P.81):
1. A
2. B

Lesson 15 (P.88):
1. B
2. A

Lesson 16 (P.91):
1. B
2. A

Lesson 17 (P.98):
1. B
2. A

Lesson 18 (P.101):
1. A
2. B

Answer Bank

This science book's 26 lessons, 9 assessments, and 34 puzzles intertwine for spiral learning. As this is an actual lesson from the book and all the resources needed to solve the puzzle are not available in this sample, the authors have provided this Answer Bank, for this sample only, to help you solve the puzzle.

Chart Living Plant Continent Flower Photosynthesis Sun Desert Producer Food Cells Leaf Root Oxygen Nutrients Plants Rainforest System Producer

Heat Energy

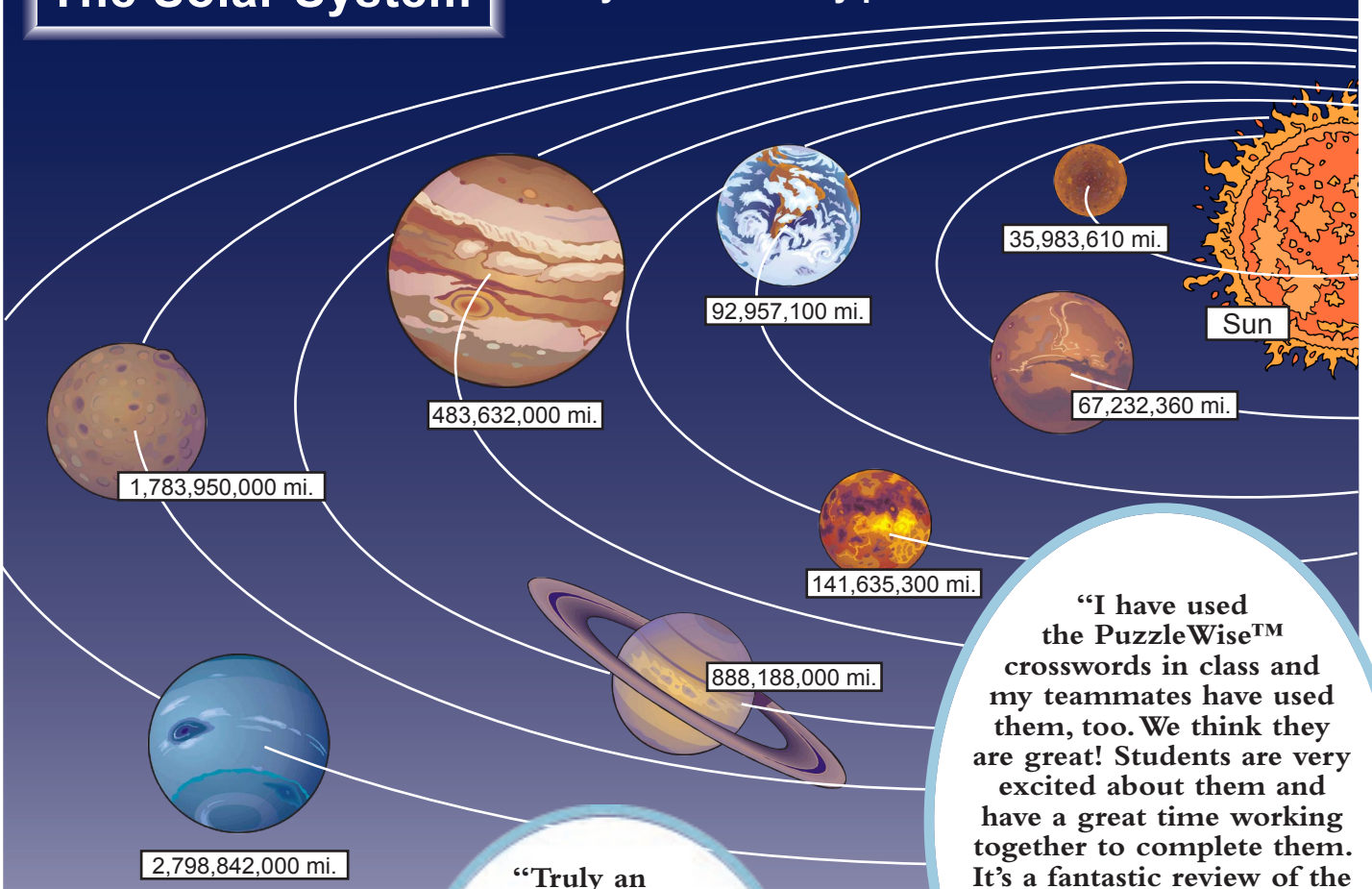
PUZZLEWISE™

SCIENCE Level 3

Over 1,000 science skill and science literacy builders!

The Solar System

Can you name every planet?



"I have used the PuzzleWise™ crosswords in class and my teammates have used them, too. We think they are great! Students are very excited about them and have a great time working together to complete them. It's a fantastic review of the vocabulary and concepts. PuzzleWise™ crosswords have been perfect!"
– Wendy Tedford, Fourth Grade Teacher

"Truly an exceptional way to help students learn the skills necessary for success in school and become life-long learners. Fun, purposeful, and innovative!"
– Dr. Betsy Rogers, National Teacher of the Year, 2003

"These puzzles stretch your mind to new limits."
– Larissa V., Student

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