

ReadWorks

Strangler Figs

by ReadWorks

If plants starred in movies, the strangler fig would be the main character in a horror film. The strangler fig is known in Spanish as *matapalo*, the "killer tree." It can be found in rainforests and other humid environments all over the world. It has an unusual and interesting way of growing because it is an epiphyte. An epiphyte is an air plant that grows on the surface of another plant. This epiphyte can grow figs that many species of birds enjoy. Once birds eat the figs of the epiphyte, they clean their bills and drop fig seeds on high tree branches. Strangler fig seeds then germinate in the rainforest canopy, where there is plenty of sunlight. As a strangler fig seed matures, it begins sending down long roots to the forest ground. Once the roots reach the ground and enter the soil, they weave together and slowly wrap around their host tree. The host tree now must compete with the strangler fig for sunlight and nutrients in the soil. Usually, this process kills the



a strangler fig around its host tree

host and only the fig tree is left. The "trunk" of the fig tree is actually a giant web of roots. These trees are immune from forest clearing by humans because loggers do not like their knotted and twisted wood.

According to historians, the strangler fig played a role in destroying Mayan cities in Central America. Seeds dropped by birds and bats germinated high on the walls of buildings. The roots would force their way between the stone bricks of the walls and would eventually destroy the entire wall.

Although this killer tree may seem like an enemy, it is also an incredible shelter for a diverse group of animals such as bats, birds, rodents, reptiles, and amphibians. Its hollow openings provide protection for many of these organisms. At certain points of the year, fig trees are the only trees producing fruit, and they provide necessary nutrients for primates and birds. Although these python-like trees may seem menacing, their ability to adapt illustrates how necessary it is for plants to compete successfully in order to survive in the rainforest.

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Name: _____

Date:

- **1.** What is an epiphyte?
 - A. any plant that kills other plants by sucking out their nutrients
 - B. a plant that can be found in rainforests all over the world
 - C. a plant that grows well in humid climates
 - D. an air plant that grows on the surface of other plants

2. This passage describes strangler figs and their role in the rainforest. What is one way strangler figs are good for the rainforest?

- A. Strangler figs' trunks are actually a tangled web of roots.
- B. Strangler figs block their host tree from getting sunlight and nutrients.
- C. Strangler figs provide food and shelter for many rainforest animals.
- D. Strangler figs' seeds germinate in the top of the rainforest canopy.

3. The text says, "The host tree now must compete with the strangler fig for sunlight and nutrients in the soil. Usually, this process kills the host and only the fig tree is left." What conclusion can be drawn about strangler figs based on this evidence?

- A. Strangler figs are very good at competing for sunlight and nutrients.
- B. Strangler figs squeeze their host trees just like a python squeezes its prey.
- C. Strangler figs' host trees need a huge amount of water to survive.
- D. Strangler figs choose weak host trees to grow on.

4. Strangler figs do not rely on nutrients directly from the surface they are growing on. What evidence from the text best supports this conclusion?

A. "Usually, this process kills the host and only the fig tree is left. The "trunk" of the fig tree is actually a giant web of roots."

B. "According to historians, the strangler fig played a role in destroying Mayan cities in Central America. Seeds dropped by birds and bats germinated high on the walls of buildings."

C. "Once birds eat the figs of the epiphyte, they clean their bills and drop fig seeds on high tree branches."

D. "Although these python-like trees may seem menacing, their ability to adapt illustrates how necessary it is for plants to compete successfully in order to survive in the rainforest."

5. What is the main idea of this passage?

A. Strangler figs played a role in destroying Mayan cities in Central America, by growing on and through the walls of buildings.

B. Strangler figs can be dangerous to other rainforest trees, but they provide food and shelter for rainforest animals.

C. Strangler figs are the most important food source for rainforest birds who drop their seeds high in the branches of other trees.

D. Strangler figs are unusual trees that cannot grow on their own; they need the support of other trees to hold them up.

6. Please read the following sentences from the text.

"The 'trunk' of the fig tree is actually a giant web of roots. These trees are **immune** from forest clearing by humans because loggers do not like their knotted and twisted wood."

As used in these sentences, what does the word immune mean?

- A. a main cause of something
- B. twisted around something
- C. destroyed by something
- D. protected from something

7. Choose the answer that best completes the sentence below.

Strangler figs destroyed some buildings in ancient Mayan cities ______ their roots grew between the bricks in stone walls, eventually destroying the walls.

- A. meanwhile
- B. because
- C. although
- D. instead

8. How do strangler figs help rainforest animals? Use examples from the text in your answer.

9. How do strangler figs kill other plants? Use examples from the text in your answer.

10. Imagine that a scientist discovered a way to get rid of all strangler fig trees in a rainforest. Is this a good idea or not? Support your answer with details from the text.

WRITING PROMPT

<u>Week 4</u>

Write about a time you were helpful (at home, at school, in the community, a family member).

CCSS.MATH.CONTENT.4.OA.A.1



Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.

Multiplication Tables - 2 to 10 practice

Grade 4 Multiplication Worksheet

Find the missing number.

1× 4 = 28	2× 7 = 56	^{3.} 2 ×= 18
4. 3 × 6 =	^{5.} 6 ×= 48	6. 9 × 4 =
^{7.} 4 ×= 12	^{8.} 3 × 10 =	9. 9 × 7 =
10× 2 = 14	^{11.} 8 × 8 =	^{12.} × 6 = 42
^{13.} 2 × 7 =	^{14.} 6 × 9 =	^{15.} × 5 = 45
^{16.} 6 × 6 =	17. 7 × 7 =	18 × 3 = 9
^{19.} × 6 = 48	^{20.} 6 ×= 24	^{21.} 8 ×= 32
^{22.} 5 ×= 20	^{23.} 4 ×= 28	^{24.} 5 ×= 50
^{25.} 3 ×= 24	^{26.} × 10 = 60	^{27.} 3 ×= 12



CCSS.MATH.CONTENT.4.OA.A.1

Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.

Multiplication Tables - 2 to 12 practice

Grade 4 Multiplication Worksheet

Find the missing number.

1. 4 ×= 32	2× 10 = 100	^{3.} 11 ×= 121
4. 7 ×= 35	^{5.} 11 × 10 =	^{6.} 11 ×= 99
7. 2 ×= 22	^{8.} 4 × 5 =	^{9.} × 2 = 16
10. 9 ×= 18	^{11.} × 12 = 132	12. 7 × 6 =
13. 8 × 3 =	^{14.} 10 ×= 70	^{15.} × 2 = 14
^{16.} 3 ×= 12	^{17.} 7 ×= 70	^{18.} × 7 = 42
^{19.} 10 ×= 110	20× 4 = 16	21× 8 = 80
^{22.} 11 × 6 =	23. 7 ×= 77	^{24.} 3 ×= 33
^{25.} × 12 = 144	26. 7 × 7 =	27× 9 = 72



CCSS.MATH.CONTENT.4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Multiplication - commutative property

Grade 4 Multiplication Worksheet

Example: $2 \times 4 \times 6 = 8 \times 6 = 48$ or $2 \times 4 \times 6 = 2 \times 24 = 48$

Rewrite the equation so it only has 2 factors, then solve.

1.	5 × 10 × 6 =
2.	6 × 6 × 4 =
3.	3 × 5 × 4 =
4.	5 × 7 × 2 =
5.	4 × 4 × 4 =
6.	3 × 3 × 4 =
7.	9 × 8 × 6 =
8.	3 × 7 × 10 =
9.	5 × 5 × 6 =
10.	2 × 1 × 2 =



CCSS.MATH.CONTENT.4.NBT.B.5 Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Multiplication - commutative property

Grade 4 Multiplication Worksheet

Example: $2 \times 4 \times 6 = 8 \times 6 = 48$ or $2 \times 4 \times 6 = 2 \times 24 = 48$

Rewrite the equation so it only has 2 factors, then solve.

1.	4 × 2 × 3 =
2.	6 × 4 × 7 =
3.	3 × 5 × 1 =
4.	10 × 1 × 10 =
5.	4 × 6 × 9 =
6.	2 × 3 × 7 =
7.	1 × 1 × 9 =
8.	1 × 5 × 2 =
9.	1 × 10 × 7 =
10.	9 × 10 × 6 =



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Be kind to Mother Nature!

Background knowledge

The activities of humans can affect the lives of plants and animals. *Pollution* from factories and cars can poison the air and water that plants and animals need to survive. When housing developments, roads, and malls are built, there is less open space for wildlife. Plants and animals need room to grow and reproduce. Humans also need to live and work, but there must be a balance between human need sand the needs of plants and animals. Mother Nature is not happy when the balance is disturbed!

Science activity

Draw a circle around each thing in this picture that could cause harm to animals and plants.



Science investigation

① Take extra care - ask an adult to supervise you.

Learn about local air pollution by attaching some masking tape, sticky side facing the air, to the outside of a window on each side of your house. Leave it there a week. Then use a magnifying glass to look at the tape. Compare it to fresh tape. What can you observe? Explain.

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My state's capital is:



My state is located:



My state is bordered by:



My state's motto is: _____

My state is famous for many things.

Here are a few:





My state's main rivers, lakes and mountains are:



Historically, my state is famous for:

The reasons to visit my state are:

