

OAKTREE (Plants): A mature oak tree can have a mass of 500 kg, or more, even after all the water in the tree is removed. Yet it start from an acorn that weighs only a few grams. Where did this huge increase in mass come from?

Which of the following statements is true? Circle the letter of the correct answer.

- a. ALL of the mass came from matter that was originally outside the tree, OR
- b. SOME of mass came from matter that the tree made as it grew.

Circle the best choice to complete each of the statements about possible sources of mass from outside the tree.

How much of the dry mass came from the AIR? All or most, some, none

How much of the dry mass came from SUNLIGHT? All or most, some, none

How much of the dry mass came from WATER? All or most, some, none

How much of the dry mass came from SOIL NUTRIENTS? All or most, some, none

Explain your choices. How does the oak tree gain mass as it grows?

OAKTREE (Plants): A mature oak tree can have a mass of 500 kg, or more, even after all the water in the tree is removed. Yet it start from an acorn that weighs only a few grams. Where did this huge increase in mass come from?

Which of the following statements is true? Circle the letter of the correct answer.

- a. ALL of the mass came from matter that was originally outside the tree, OR
- b. SOME of mass came from matter that the tree made as it grew.

Circle the best choice to complete each of the statements about possible sources of mass from outside the tree.

How much of the dry mass came from the AIR? All or most, some, none

How much of the dry mass came from SUNLIGHT? All or most, some, none

How much of the dry mass came from WATER? All or most, some, none

How much of the dry mass came from SOIL NUTRIENTS? All or most, some, none

Explain your choices. How does the oak tree gain mass as it grows?

OAKTREE (Plants): A mature oak tree can have a mass of 500 kg, or more, even after all the water in the tree is removed. Yet it start from an acorn that weighs only a few grams. Where did this huge increase in mass come from?

Which of the following statements is true? Circle the letter of the correct answer.

- a. ALL of the mass came from matter that was originally outside the tree, OR
- b. SOME of mass came from matter that the tree made as it grew.

Circle the best choice to complete each of the statements about possible sources of mass from outside the tree.

How much of the dry mass came from the AIR? All or most, some, none

How much of the dry mass came from SUNLIGHT? All or most, some, none

How much of the dry mass came from WATER? All or most, some, none

How much of the dry mass came from SOIL NUTRIENTS? All or most, some, none

Explain your choices. How does the oak tree gain mass as it grows?

OAKTREE (Plants): A mature oak tree can have a mass of 500 kg, or more, even after all the water in the tree is removed. Yet it start from an acorn that weighs only a few grams. Where did this huge increase in mass come from?

Which of the following statements is true? Circle the letter of the correct answer.

- a. ALL of the mass came from matter that was originally outside the tree, OR
- b. SOME of mass came from matter that the tree made as it grew.

Circle the best choice to complete each of the statements about possible sources of mass from outside the tree.

How much of the dry mass came from the AIR? All or most, some, none

How much of the dry mass came from SUNLIGHT? All or most, some, none

How much of the dry mass came from WATER? All or most, some, none

How much of the dry mass came from SOIL NUTRIENTS? All or most, some, none

Explain your choices. How does the oak tree gain mass as it grows?

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

A

How does the oaktree gain mass as it grows?
The tree absorbs water and nutrients from the soil, but obtains the vast majority of it's mass from carbon dioxide in the air via photosynthesis.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

A

How does the oaktree gain mass as it grows?
The tree absorbs water and nutrients from the soil, but obtains the vast majority of it's mass from carbon dioxide in the air via photosynthesis.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

A

How does the oaktree gain mass as it grows?
The tree absorbs water and nutrients from the soil, but obtains the vast majority of it's mass from carbon dioxide in the air via photosynthesis.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

A

How does the oaktree gain mass as it grows?
The tree absorbs water and nutrients from the soil, but obtains the vast majority of it's mass from carbon dioxide in the air via photosynthesis.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	None	None	Some	None

B

How does the oaktree gain mass as it grows?
It gains mass by the braches and things it grows on it.and as it's size increases the masss increases.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	None	None	Some	None

B

How does the oaktree gain mass as it grows?
It gains mass by the braches and things it grows on it.and as it's size increases the masss increases.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	None	None	Some	None

B

How does the oaktree gain mass as it grows?
It gains mass by the braches and things it grows on it.and as it's size increases the masss increases.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	None	None	Some	None

B

How does the oaktree gain mass as it grows?
It gains mass by the braches and things it grows on it.and as it's size increases the masss increases.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

C

How does the oaktree gain mass as it grows?
most of the mass comes from carbon in the air and some of the mass comes from water and minerals.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

C

How does the oaktree gain mass as it grows?
most of the mass comes from carbon in the air and some of the mass comes from water and minerals.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

C

How does the oaktree gain mass as it grows?
most of the mass comes from carbon in the air and some of the mass comes from water and minerals.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

C

How does the oaktree gain mass as it grows?
most of the mass comes from carbon in the air and some of the mass comes from water and minerals.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	None	None	All or most	Some

D

How does the oaktree gain mass as it grows?
it takes up water from the soil and that accounts for the mass gain in the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	None	None	All or most	Some

D

How does the oaktree gain mass as it grows?
it takes up water from the soil and that accounts for the mass gain in the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	None	None	All or most	Some

D

How does the oaktree gain mass as it grows?
it takes up water from the soil and that accounts for the mass gain in the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	None	None	All or most	Some

D

How does the oaktree gain mass as it grows?
it takes up water from the soil and that accounts for the mass gain in the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	Some	Some

E

How does the oaktree gain mass as it grows?

it takes in the nutrients and converts it into energy to expand its cells.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	Some	Some

E

How does the oaktree gain mass as it grows?

it takes in the nutrients and converts it into energy to expand its cells.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	Some	Some

E

How does the oaktree gain mass as it grows?

it takes in the nutrients and converts it into energy to expand its cells.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	Some	Some

E

How does the oaktree gain mass as it grows?

it takes in the nutrients and converts it into energy to expand its cells.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

F

How does the oaktree gain mass as it grows?
Oak trees grow by creating glucose through photosynthesis. Carbon dioxide from the air, and water from the surrounding soil become glucose. Nutrients in the soil do become part of the tree, but form only a small portion of the whole. Although photosynthesis could not occur without sunlight, sunlight does not form any of the dry mass directly.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

F

How does the oaktree gain mass as it grows?
Oak trees grow by creating glucose through photosynthesis. Carbon dioxide from the air, and water from the surrounding soil become glucose. Nutrients in the soil do become part of the tree, but form only a small portion of the whole. Although photosynthesis could not occur without sunlight, sunlight does not form any of the dry mass directly.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

F

How does the oaktree gain mass as it grows?
Oak trees grow by creating glucose through photosynthesis. Carbon dioxide from the air, and water from the surrounding soil become glucose. Nutrients in the soil do become part of the tree, but form only a small portion of the whole. Although photosynthesis could not occur without sunlight, sunlight does not form any of the dry mass directly.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	None	Some	Some

F

How does the oaktree gain mass as it grows?
Oak trees grow by creating glucose through photosynthesis. Carbon dioxide from the air, and water from the surrounding soil become glucose. Nutrients in the soil do become part of the tree, but form only a small portion of the whole. Although photosynthesis could not occur without sunlight, sunlight does not form any of the dry mass directly.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	All or most	Some

G

How does the oaktree gain mass as it grows?
The oak tree collects a lot of water and stores it in the trunk.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	All or most	Some

G

How does the oaktree gain mass as it grows?
The oak tree collects a lot of water and stores it in the trunk.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	All or most	Some

G

How does the oaktree gain mass as it grows?
The oak tree collects a lot of water and stores it in the trunk.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	Some	Some	All or most	Some

G

How does the oaktree gain mass as it grows?
The oak tree collects a lot of water and stores it in the trunk.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	Some	None	None

H	How does the oaktree gain mass as it grows?
	the oak tree takes in carbon form the environment, ussually the air, there is a lot of water in the tree, but when you subtract all of that water you are left with mainly carbon.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	Some	None	None

H	How does the oaktree gain mass as it grows?
	the oak tree takes in carbon form the environment, ussually the air, there is a lot of water in the tree, but when you subtract all of that water you are left with mainly carbon.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	Some	None	None

H	How does the oaktree gain mass as it grows?
	the oak tree takes in carbon form the environment, ussually the air, there is a lot of water in the tree, but when you subtract all of that water you are left with mainly carbon.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	All or most	Some	None	None

H	How does the oaktree gain mass as it grows?
	the oak tree takes in carbon form the environment, ussually the air, there is a lot of water in the tree, but when you subtract all of that water you are left with mainly carbon.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	Some	Some



How does the oaktree gain mass as it grows?
The oak tree gains mass as it grows by absorbing carbon and other molecules form surrounding areas around the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	Some	Some



How does the oaktree gain mass as it grows?
The oak tree gains mass as it grows by absorbing carbon and other molecules form surrounding areas around the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	Some	Some



How does the oaktree gain mass as it grows?
The oak tree gains mass as it grows by absorbing carbon and other molecules form surrounding areas around the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	Some	Some



How does the oaktree gain mass as it grows?
The oak tree gains mass as it grows by absorbing carbon and other molecules form surrounding areas around the tree.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	All or most	None	Some	None

J

How does the oaktree gain mass as it grows?

The tree takes in CO2 from the air and converts it into useable carbon during photosynthesis. Also this happens with the sunlight as well.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	All or most	None	Some	None

J

How does the oaktree gain mass as it grows?

The tree takes in CO2 from the air and converts it into useable carbon during photosynthesis. Also this happens with the sunlight as well.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	All or most	None	Some	None

J

How does the oaktree gain mass as it grows?

The tree takes in CO2 from the air and converts it into useable carbon during photosynthesis. Also this happens with the sunlight as well.

Which of the following statements is true?	Air	Sunlight	Water	Soil
b. SOME of mass came from matter that the tree made as it grew.	All or most	None	Some	None

J

How does the oaktree gain mass as it grows?

The tree takes in CO2 from the air and converts it into useable carbon during photosynthesis. Also this happens with the sunlight as well.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	None	All or most

K

How does the oaktree gain mass as it grows?
It grows over time and the tree grows more outside matter such as bark causing the tree to weigh more

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	None	All or most

K

How does the oaktree gain mass as it grows?
It grows over time and the tree grows more outside matter such as bark causing the tree to weigh more

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	None	All or most

K

How does the oaktree gain mass as it grows?
It grows over time and the tree grows more outside matter such as bark causing the tree to weigh more

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	None	None	All or most

K

How does the oaktree gain mass as it grows?
It grows over time and the tree grows more outside matter such as bark causing the tree to weigh more

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	Some	Some	Some



How does the oaktree gain mass as it grows?
As the oak tree grows, the larger the tree will become and that will cause the mass to increase.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	Some	Some	Some



How does the oaktree gain mass as it grows?
As the oak tree grows, the larger the tree will become and that will cause the mass to increase.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	Some	Some	Some



How does the oaktree gain mass as it grows?
As the oak tree grows, the larger the tree will become and that will cause the mass to increase.

Which of the following statements is true?	Air	Sunlight	Water	Soil
a. ALL of the mass came from matter that was originally outside the tree, OR	Some	Some	Some	Some



How does the oaktree gain mass as it grows?
As the oak tree grows, the larger the tree will become and that will cause the mass to increase.