

A++
A++

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收水分和養分, 固定身骨體
2. What is the main function of the stem? 支撐身骨體
3. What are the main functions of leaves? 調節體溫, 蒸散水分

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow	produce	support

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and produce nutrients.

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.
2. The stems can transport water and nutrients, and can also support the plant body.
3. The leaves look at evapotranspiration and can absorb sunlight to produce nutrients.

Content

1. Divide the students in the class into five groups.
2. Each group is root, bark, stem (vascular bundle), trunk, leaves, and forms a big tree.
 - The trunk stands in the center
 - The stems stand around the trunk.
 - The bark stands around the stem.
 - The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
根
2. Which part do you think you want to be the most? Why?
我想當樹根
3. How do you feel when you were about to be cut down?
要死了

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收水分和養分, 抓住土壤固定身體。
2. What is the main function of the stem? 輸送水分和養分, 支持身體。
3. What are the main functions of leaves? 蒸散水分, 調節體溫。

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 長	produce 製造	support 支持

1. The root can absorb water and nutrients, and grab the soil. → 土壤
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and produce nutrients.
↓
養分

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.
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 - The bark stands around the stem.
 - The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
trunk
2. Which part do you think you want to be the most? Why?
Bark, because is fun.
3. How do you feel when you were about to be cut down?

Cool

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?
2. What is the main function of the stem?
3. What are the main functions of leaves?

吸收水份 抓住土壤 固定身體
 運送水份 養份 支持身體
 蒸散水份

Language

transport	absorb	evaporate
grow	produce	support

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and grow nutrients.

produce.

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.
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 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

TRUNK

2. Which part do you think you want to be the most? Why?

TRUNK

① 因為最重要 ② is fun

3. How do you feel when you were about to be cut down?

COOL!

A++

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?

① 吸收水分和養分 ② 抓住土壤, 固定身體 ③ take roots

2. What is the main function of the stem?

① 輸送水分和養分 ② 支撐身體

3. What are the main functions of leaves?

① 蒸散水分, 調節體溫 ② 製造養分

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 成長	produce 製造	support 支撐

1. The root can absorb water and nutrients, and grab the soil.

2. The stem can transport water and nutrients, and support the plant body

3. The leaves can evaporate water, absorb sunlight and produce nutrients.

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.

2. The stems can transport water and nutrients, and can also support the plant body.

3. The leaves look at evapotranspiration and can absorb sunlight to produce nutrients. 蒸散作用

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- o The bark stands around the stem.
- o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
- o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

Root.

2. Which part do you think you want to be the most? Why?

Bark, because is so excited and fun.

3. How do you feel when you were about to be cut down?

Cool.

A+

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?
吸收水分和冰、抓住土壤
2. What is the main function of the stem?
傳送養分、撐住身體
3. What are the main functions of leaves?
蒸散水分、調節溫度

Language

transport 傳送	absorb 吸收	evaporate 蒸散
grow 成長	produce 製造	support 撐住

nutrients 養分

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and produce nutrients.

Sentence

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 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? stems
2. Which part do you think you want to be the most? Why? stems (2 莖很安全有樹皮保護)
3. How do you feel when you were about to be cut down? 有黑點害怕

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? *根 吸收 water and 養分, 抓住 ground 固定身體。*
2. What is the main function of the stem? *莖 transport water and 養分 support 身體*
3. What are the main functions of leaves? *葉 Evaporate 作用, 調節身體溫度。*

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 成長	produce 產	support 支撐

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 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
都重要
2. Which part do you think you want to be the most? Why?
葉子, 因為可以吹風。
3. How do you feel when you were about to be cut down?

掉下來時在吹風, (冷的)

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收水份/抓土壤固定身體
2. What is the main function of the stem? 輸送水份養份, 支持身體
3. What are the main functions of leaves? 蒸散作用

Language

transport <u>輸送</u>	absorb <u>吸收</u>	evaporate <u>蒸散</u>
grow <u>成長</u>	produce <u>製造</u>	support <u>支持</u>

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 - To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
trunk
2. Which part do you think you want to be the most? Why?
trunk because is fun.
3. How do you feel when you were about to be cut down?
cool

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 抓住土壤、吸收水分和養分
2. What is the main function of the stem? 輸送水分、支撐身體
3. What are the main functions of leaves? 蒸散作用：蒸散水分調節體溫

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow	produce 製造	support 支撐

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 - The bark stands around the stem.
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 - To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

root

2. Which part do you think you want to be the most? Why?

root, because I can do some thing good to play!

3. How do you feel when you were about to be cut down?

I thing it so bad, because it's tree's lives!

The plant world- Functions of roots, stems and leaves

A

Warmer

1. What is the main function of the root?
抓住固定養分
2. What is the main function of the stem?
莖可以輸送水分
3. What are the main functions of leaves?
葉可以蒸散水分

Language

transport <i>運送</i>	absorb <i>吸收</i>	evaporate <i>蒸發</i>
grow <i>生長</i>	produce <i>產生</i>	support <i>支撐</i>

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and produce nutrients.

transport

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.
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 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

樹皮

2. Which part do you think you want to be the most? Why?

根因為最輕鬆

3. How do you feel when you were about to be cut down?

很感覺因為是根

林小

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?

吸收水分、養分，抓住土壤固定身體。

2. What is the main function of the stem?

輸送水分、養分，支撐身體。

3. What are the main functions of leaves?

蒸散水分，製作養分。

Language

transport	absorb	evaporate
grow	produce	support

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- o The bark stands around the stem.
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- o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

根

2. Which part do you think you want to be the most? Why?

根，在土裡不會被剪。

3. How do you feel when you were about to be cut down?

很害怕，但只能等被殺。

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收水分和養分, 抓住土壤固定身體~
2. What is the main function of the stem? 輸送水分, 養分支撐身體! ✓
3. What are the main functions of leaves? 蒸散水分, 調節體溫~ ✓

Language

transport 輸送	absorb 吸收	evaporate 吸收
grow 成長	produce 製造	support 支撐

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and produce nutrients. ✓

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.
2. The stems can transport water and nutrients, and can also support the plant body.
3. The leaves look at evapotranspiration and can absorb sunlight to produce nutrients.
nutrients: 養分 support: 支撐

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 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? root ✓
2. Which part do you think you want to be the most? Why? leaves, because they didn't do any things! ✓
3. How do you feel when you were about to be cut down? I'm scared! ✓

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the ^{做用} root? ^根 吸收水分和養分, 抓住土壤固定身體。
2. What is the main function of the ^莖 stem? 輸送水分, 支撐植物骨體。
3. What are the main functions of leaves? ^葉 蒸散水分。

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 成長	produce 製造	support 支撐

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and ^{養分} nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and produce nutrients.

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.
2. The stems can transport water and nutrients, and can also support the plant body.
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蒸散作用

Content

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 - o The stems stand around the trunk.
 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
根和樹皮, 因為根可以抓住土壤固定身體, 而樹皮要保護樹。
2. Which part do you think you want to be the most? Why?
根, 因為不會被砍。
3. How do you feel when you were about to be cut down?
很不開心。

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? ① 吸收水分和養分 ② 抓住土壤固定身體
2. What is the main function of the stem? ① 輸收水分和養分 ② 支撐身體
3. What are the main functions of leaves? ① 蒸散水分、調節體溫 ② 製造養分

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 長	produce 製造	support 支撐

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 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? root
2. Which part do you think you want to be the most? Why? 樹皮, 因為可以保護整株植物
3. How do you feel when you were about to be cut down? 很恐怖

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 抓泥土, 吸收水分, 養分。
2. What is the main function of the stem? 支撐身體。
3. What are the main functions of leaves? 蒸散作用, 蒸散水分, 調節溫度。

Language

transport <u>輸送</u>	absorb <u>吸收</u>	evaporate <u>蒸散</u>
grow	produce	support

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 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? 根
2. Which part do you think you want to be the most? Why? 不想當樹
3. How do you feel when you were about to be cut down? 絕望, 可是我以後死了。
絕
這一片葉子

Aa Bb Cc Dd

Aa

A++

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收養分和 water
2. What is the main function of the stem? 莖: 傳養分和水分支撐身體
3. What are the main functions of leaves? 葉: 可以蒸散, 調節溫度

Language

transport <u>傳送</u>	absorb <u>吸收</u>	evaporate <u>蒸散</u>
grow <u>成長</u>	produce <u>製造</u>	support

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 - o The stems stand around the trunk.
 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? 莖
2. Which part do you think you want to be the most? Why? 莖 因為莖很安全
3. How do you feel when you were about to be cut down? 終於可以解套

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收養分及水分, 抓住土壤
2. What is the main function of the stem? 輸送水分 (water), 支撐身體
3. What are the main functions of leaves? 蒸散水分 (water), 調節體溫 (body)

Language

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grow	produce 製造	support 支撐

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 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? 樹皮
2. Which part do you think you want to be the most? Why? 樹皮 因為有參與感
3. How do you feel when you were about to be cut down? 很爽, 很嗨

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? *可以吸收 water 和 nutrients 抓住 soil*
2. What is the main function of the stem? *Car 輸送 water 和 養分 支撐 body*
3. What are the main functions of leaves? *can 蒸散 water 調節 水分*

Language

transport 輸送	absorb	evaporate
grow 長.....	produce	support

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 - o The trunk stands in the center
 - o The stems stand around the trunk.
 - o The bark stands around the stem.
 - o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
Trunk 因為他就像樹的心。
2. Which part do you think you want to be the most? Why?
Trunk 因為他就像樹的心。
3. How do you feel when you were about to be cut down?
It's sad.

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?

吸收水分養分並輸送, 抓住土壤

2. What is the main function of the stem?

輸送水分、支撐身體

3. What are the main functions of leaves?

進行蒸散作用、調節體溫

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 成長	produce 製造	support 支撐

1. The root can absorb water and nutrients, and grab the soil.

2. The stem can transport water and nutrients, and support the plant body

3. The leaves can evaporate water, absorb sunlight and produce nutrients.

Sentence

1. Roots can absorb water and nutrients, grab the soil and fix the plant body.

2. The stems can transport water and nutrients, and can also support the plant body.

3. The leaves look at evapotranspiration and can absorb sunlight to produce nutrients.

Content

1. Divide the students in the class into five groups.

2. Each group is root, bark, stem (vascular bundle), trunk, leaves, and forms a big tree.

- The trunk stands in the center
- The stems stand around the trunk.
- The bark stands around the stem.
- The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
- To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

樹皮

2. Which part do you think you want to be the most? Why?

莖, 因為只要停著跟傳輸養分、水分就好

3. How do you feel when you were about to be cut down?

很開心!

哈哈哈哈哈

The plant world- Functions of roots, stems and leaves

Aff

Warmer

1. What is the main function of the root?

吸收水分和養分。固定身體

2. What is the main function of the stem?

輸送水分和支撐身體。

3. What are the main functions of leaves?

蒸散水分、調解體溫、製作養分(光合作用)。

Language

transport 輸送	absorb 吸收	evaporate 蒸散
grow 成長	produce 產生	support 支撐

1. The root can absorb water and nutrients, and grab the soil.

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蒸散作用

Content

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- o The bark stands around the stem.
- o The roots and leaves wrap around the bark, the roots sit down, and the leaves raise their hands.
- o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?

根，不然就沒有水。

2. Which part do you think you want to be the most? Why?

莖，因為不會被攻擊。

3. How do you feel when you were about to be cut down?

很可惜

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?
吸收水分和養分 ✓
2. What is the main function of the stem?
輸送水分和養分 ✓
3. What are the main functions of leaves?
蒸散水分 調節溫度 ✓

Language

transport	absorb	evaporate
grow	produce	support

1. The root can absorb water and nutrients, and grab the soil.
2. The stem can transport water and nutrients, and support the plant body
3. The leaves can evaporate water, absorb sunlight and ~~produce~~ produce nutrients. ✓

Sentence

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 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important? 枝皮 ✓
2. Which part do you think you want to be the most? Why? 枝皮? ✓
3. How do you feel when you were about to be cut down? 慘烈刺激、可怕 ✓

A++

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? ^{作用} 根 吸收養分水分, 抓住土。
2. What is the main function of the stem? ^莖 輸送水、養分
3. What are the main functions of leaves? ^葉 蒸散水分, 調節溫度

Language

transport	absorb	evaporate
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 - o To imagine the behavior of the tree according to the instructions.

Thinking

1. What part do you think is the most important?
root
2. Which part do you think you want to be the most? Why?
root, because I can do some thing good to play!
3. How do you feel when you were about to be cut down?
I thing it so bad, because it's trees lives!