

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? ^{作用} The root can give the leaves ^{and stem} water. ✓
2. What is the main function of the stem? ^{作用} It stem give water to leaves, and root give water to stem. ✓
3. What are the main functions of leaves? ^{作用} The leaves can get out the water, and make the water to give all of the plant. ✓

Language

transport ^{運送}	absorb ^{吸收}	evaporate ^{蒸散}
grow ^長	produce ^{產生}	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. ^{根樹皮 莖 樹幹 葉}
 - 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?
The root are most important, because it falls will let the trees fall down. ✓
2. Which part do you think you want to be the most? Why?
I want to be the leaves, never be hardly. ✓
3. How do you feel when you were about to be cut down?
I am so sad. ✓

ATT

The plant world- Functions of roots, stems and leaves

Joanne

Warmer

1. What is the main function of the root? ^{功能} 根 吸收水分和養分, 抓住土壤 
2. What is the main function of the stem? ^茎 輸送 water and 養分, 支撐 body
3. What are the main functions of leaves? ^葉 蒸散 water

Language

transport	absorb 吸收	evaporate 蒸發
grow	produce 產生	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}

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 ^{樹心}
 - The stems stand around the trunk. ^{樹幹}
 - The bark stands around the stem. ^{樹皮}
 - 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?
I think roots is most important. Because it can absorb water and nutrients.
2. Which part do you think you want to be the most? Why?
I want to be stem. Because I can transport water and nutrient, and support the plant body.
3. How do you feel when you were about to be cut down?
I'm will be very sad and angry.



The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? ^{植物} 吸收水分和養分 抓住土壤 固定植物
2. What is the main function of the stem? ^根 輸送 water 和 養分 支撐 plant (木莖草莖)
3. What are the main functions of leaves? ^莖 蒸散作用、光合作用

Language

transport	absorb	evaporate
grow	produce	support

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

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fix 固定
transport
produce 生產

蒸散作用

Content

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

樹皮

樹心

Thinking

1. What part do you think is the most important?
我覺得根最重要, 不然會沒養分
2. Which part do you think you want to be the most? Why?
根, 因為我是最重要的部位。
3. How do you feel when you were about to be cut down?

很開心, 代表那個人覺得我不錯!



The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the **root**? 植物 的世界 功能 吸收水分和養分, 固定身體
2. What is the main function of the **stem**? 莖 支撐身體, 傳送水分和養分
3. What are the main functions of **leaves**? 葉 蒸散 water.

Language

transport <small>運輸</small>	absorb <small>吸收</small>	evaporate <small>蒸</small>
grow <small>長大</small>	produce <small>產生</small>	support <small>撐</small>

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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 - 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?
樹心, 可以支撐樹木樹心
3. How do you feel when you were about to be cut down?

我明明就沒做什麼, 我就好好的在這, 為什麼你要殺了我?

A++

^{植物} The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? ^{功能} 吸收養水分, ^根 抓住土壤.
2. What is the main function of the stem? ^{功能} 支撐身體, ^莖 輸送養水分.
3. What are the main functions of leaves? ^{功能} 蒸散 water.

Language

transport 輸送	absorb 吸收	evaporate 蒸發
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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 - 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?
The roots.
2. Which part do you think you want to be the most? Why?
樹皮, 因為保護大家.
3. How do you feel when you were about to be cut down?
憤怒, 悲傷.

The plant world- Functions of roots, stems and leaves

Warmer

功能

根

莖

葉

1. What is the main function of the root?

A: 吸收水分和養分、抓住土壤

2. What is the main function of the stem?

A: 輸送水分和養分、支撐身體

3. What are the main functions of leaves?

A: 調節體溫、製造養分

Language

transport	absorb 吸收	evaporate
grow	produce	support

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- 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?

我覺得根最重要，因為要支撐身體(板木根)

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

我想當根，因為可以支撐身體

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

我會很傷心 this is so sad

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?

→ 根 吸水分、養分、抓住土壤

2. What is the main function of the stem?

功能 → 莖 輸送水分、養分、支撐身體

3. What are the main functions of leaves?

→ 葉 ?

Language

transport 運輸	absorb 吸收	evaporate 蒸發
grow 成長	produce	support 支撐

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Sentence

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Content

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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.

樹

Thinking

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

我覺得最重要的是根，因為可以吸收水分。

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

樹皮，因為可以保護大家。

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

很生氣。

The plant world- Functions of roots, stems and leaves

Warmer

功能

根 莖

葉

1. What is the main function of the root?

吸收 water、抓住土壤 ✓

2. What is the main function of the stem?

輸送 water、輸送養分、支撐身體 ✓

3. What are the main functions of leaves?

蒸散 water、行光合作用 ✓

Language

transport	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.2. The stem can transport water and nutrients, and support the plant body3. 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.

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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?

The roots is most important. ✓

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

I want to be the roots, because I like! ✓

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

I feel sad, because this is my body. ✓

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?

Help plants to grab the soil, absorb water and nutrients.

2. What is the main function of the stem?

Help plants to absorb water and nutrients, and support the plant body.

3. What are the main functions of leaves?

Help plants to evaporate water, absorb sunlight and produce nutrients.

Language

transport 運輸	absorb 吸收	evaporate
(grow)	produce 產生	support 支撐

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

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- 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?

莖，因為可以一直長著，只要够長无分。

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

痛苦，因為好不是意活下來，可是卻被人丟下來。

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?

Help plants to absorb water and nutrients and support the plant body.

2. What is the main function of the stem?

Help plants to transport water and nutrients and can also support

3. What are the main functions of leaves?

Help plants to evapotranspiration and can absorb sunlight to produce the plant's body.

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

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Sentence

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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:

- 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?

I think roots are the most important part, because it transport the water to

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

I want to be leaves, because ^{I think} it's cool.

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

I feel sad when I'm about to be cut down

good

every
were.

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? Help the plants to grab the soil, absorb water and nutrients.
2. What is the main function of the stem? 支撐身體、運送水、養分.
3. What are the main functions of leaves? 蒸散作用.

Language

transport 運輸	absorb 吸收	evaporate 蒸發
grow	produce 產生	support 支撐

1. The root can absorb water and nutrients, and grab the soil.
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3. The leaves can evaporate water, absorb sunlight and produce nutrients.

Sentence

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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?

I think roots are the most important.

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

I want to be the stems because I think it is cute.

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

I will feel very sad when I'm about to be cut down.

The plant world- Functions of roots, stems and leaves

A++

Warmer

1. What is the main function of the root?

Help plants to grab the soil, absorb water and nutrients.

2. What is the main function of the stem?

help plants to transport water and nutrients, and support

3. What are the main functions of leaves?

Language

Help plants to evaporate water, absorb sunlight and produce nutrients.

transport	absorb / 吸收	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 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. 分组

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

- 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?

I think the trunk is important, because it can support the body.

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

I want to be a leaves, because the leaf can evapotranspire to in.

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

I'm sad

The plant world- Functions of roots, stems and leaves

Warmer

植物

1. What is the main function of the root? 吸收土裡的養分和水分、抓著土壤
2. What is the main function of the stem? 支撐身體, 傳送水、養分
3. What are the main functions of leaves? 蒸散作用

A++

Language

transport	absorb	evaporate
grow	produce	support

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

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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?
2. Which part do you think you want to be the most? Why?
3. How do you feel when you were about to be cut down?

I think the roots is the the most important.

I ~~like~~ want to be roots, because I can eat a lot of water and nutrients.

I'm very sad.

Class 23 Number Name: 鄭淨 A+

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 根 定土壤 吸養份
2. What is the main function of the stem? 莖 支撐
3. What are the main functions of leaves? 光合作用 *

Language

transport	absorb 吸收	evaporate 蒸散
grow	produce 產生	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. 養分

Sentence

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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? 汁 根
2. Which part do you think you want to be the most? Why? 根 因為根可以吸到水
3. How do you feel when you were about to be cut down? 哭哭

A-

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?
 功能 根
 吸收水分、抓住土壤 and 抓
2. What is the main function of the stem?
 运送 water and 支撑身体
3. What are the main functions of leaves?
 行光合作用、蒸散水份



Language

transport 运送	absorb 吸收	evaporate 蒸散
grow 成长	produce 产生	support 支撑

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

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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?
 ?
2. Which part do you think you want to be the most? Why?
 ?
3. How do you feel when you were about to be cut down?
 ?

A+

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?

根 茎 葉
 根 吸收水分和養分
 葉: 幫助植物進行光合作用
 蒸散 蒸散
 幫助植物支撐身體

Language

transport	absorb 吸收	evaporate 蒸發
grow	produce 產生	support 支撐

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我的心情很很開心

我喜歡當菓子
因為當菓子比

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

植物世界 功能 根 莖 葉

A+

1. What is the main function of the root?

吸收水分 抓住土壤 ✓

2. What is the main function of the stem?

支撐身體 傳送水分養分 ✓

3. What are the main functions of leaves?

蒸散作用 光合作用 ✓

Language

transport	absorb 吸收	evaporate
grow	produce	support

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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.

樹心 莖

Thinking

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

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

樹心 可以站穩重心 ✓

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

傷心 生氣 ✓

植物世界
The plant world: Functions of roots, stems and leaves

A++

Warmer

根的 功能

根 莖

葉

1. What is the main function of the root? 吸收水份跟養份, 固定身體。
2. What is the main function of the stem? 支撐身體, 傳送養-水 份
3. What are the main functions of leaves? 蒸散作用和光合作用

Language

transport 運送	absorb 吸收	evaporate 蒸發
grow 生長	produce	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.
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Thinking 你覺得哪個部分是重要?

1. What part do you think is the most important?
葉子
2. Which part do you think you want to be the most? Why?
你是喜歡當樹的什麼?
葉子, 因為可以曬太陽。
3. How do you feel when you were about to be cut down?
你要被砍的時後, 心情如何?
cry cry cry cry cry
say, say, say, say, say
蚊: 哭 哭 哭 哭 哭

Root: 根
 stem: 莖
 leaves: 葉
 Plant: 植物
 Functions: 功能
 bark: 皮

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root?
 固定身子, 吸收水和養分
2. What is the main function of the stem?
 輸送水和養分, 支撐身子
3. What are the main functions of leaves?
 行光合作用, 蒸散作用

A++

Language

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Thinking

1. What part do you think is the most important?
 葉子(因為沒有養分植物活不了!)
2. Which part do you think you want to be the most? Why?
 樹心(因為什麼都不用做)
3. How do you feel when you were about to be cut down?

NO!!!

The plant world- Functions of roots, stems and leaves

根的功能

A++

Warmer

1. What is the main function of the root?
吸收水分、固定身體 ✓
2. What is the main function of the stem?
支撐身體、輸送養分、水分 ✓
3. What are the main functions of leaves?
蒸散作用、光合作用 ✓

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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?
樹心, 被保護 ✓
3. How do you feel when you were about to be cut down?

無奈以後要當高山樹

The plant world- Functions of roots, stems and leaves

Warmer

1. What is the main function of the root? 吸收 water and 養分, 抓住土壤
2. What is the main function of the stem? can 輸送 water and 養分, 支撐 body
3. What are the main functions of leaves? can 蒸散 water 調節 水分

Language

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Thinking

1. What part do you think is the most important? 都很重要。
2. Which part do you think you want to be the most? Why? 莖, 因為很有參與感。
3. How do you feel when you were about to be cut down? So cool