

Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? A. so hot
2. What can you make by playing shadow games? A. I can make snail
3. The relationship between of sun position and shadow? 高度角越高影子越短 高度角越低影子越长

Language

Earth 地球	distance 距離	surface 表面
temperature 溫度	age 年記	mass 重量

1. The mass of the sun is 333 thousand times the mass of Earth.
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4.5 billion years.
4. The distance from the sun to the earth is 150 million kilometers.

Content

Watch a video of The Sun (3:35) and discuss the following questions in a small group. 因為太陽离我们最近

1. Why we see the sun seems much bigger and brighter than any other star? 近
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun? 130000

Notes: 因為太陽离我们最近
2. 4.5億
3. 130萬顆地球

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? hot hot hot
2. What can you make by playing shadow games? rock
3. The relationship between of sun position and shadow? 嗯! 對阿!

高度角越大 影子越短

Language

Earth 地球	distance 距離	surface 表面
temperature 溫度	age 年	mass 質量

1. The mass of the sun is 333 thousand times the mass of Earth
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4,5 billion years.
4. The distance from the sun to the earth is 150 million kilometers.

Content

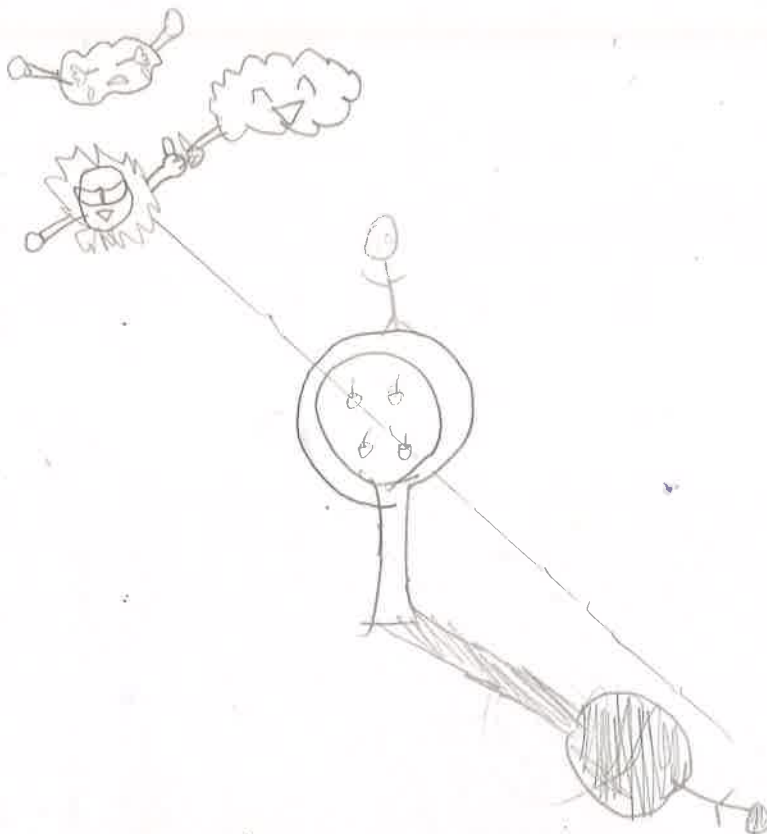
Watch a video of The Sun (3:35) and discuss the following questions in a small group.

1. Why we see the sun seems much bigger and brighter than any other star? 因為離我們最近
2. How long has it been shining in space? 130 00
3. How many planets the size of our earth can fit inside the sun? 130 0000

Notes: 因為離我們最近
4.5億
13300000顆地球

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? hot, light ✓
2. What can you make by playing shadow games? dog, bird ✓
3. The relationship between of sun position and shadow? 太陽越高, 影子越短

Language

Earth	distance	surface
temperature	age	mass

1. The mass of the sun is 333 thousand times the mass of Earth.
2. The temperature of the sun's surface is 5,500 degrees °C
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Content

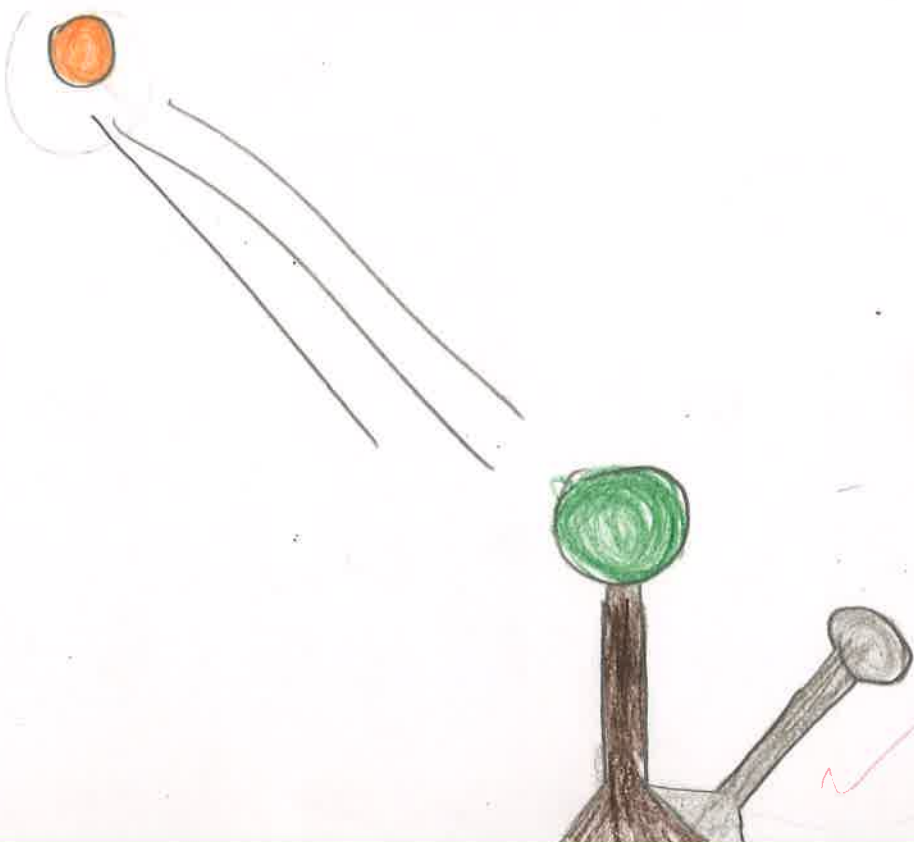
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: <u>因為太陽最靠近我們。</u>
<u>四點五億年。</u>
<u>一百三十萬顆。</u>

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? hot
2. What can you make by playing shadow games? I can make a clam.
3. The relationship between sun position and shadow? ~~Shadow~~ would be short or high

Language

Earth	distance	surface
temperature	age	mass

1. The mass of the sun is 333 thousand times the mass of Earth
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4.5 billion years.
4. The distance from the sun to the earth is 150 million kilometers.

Content

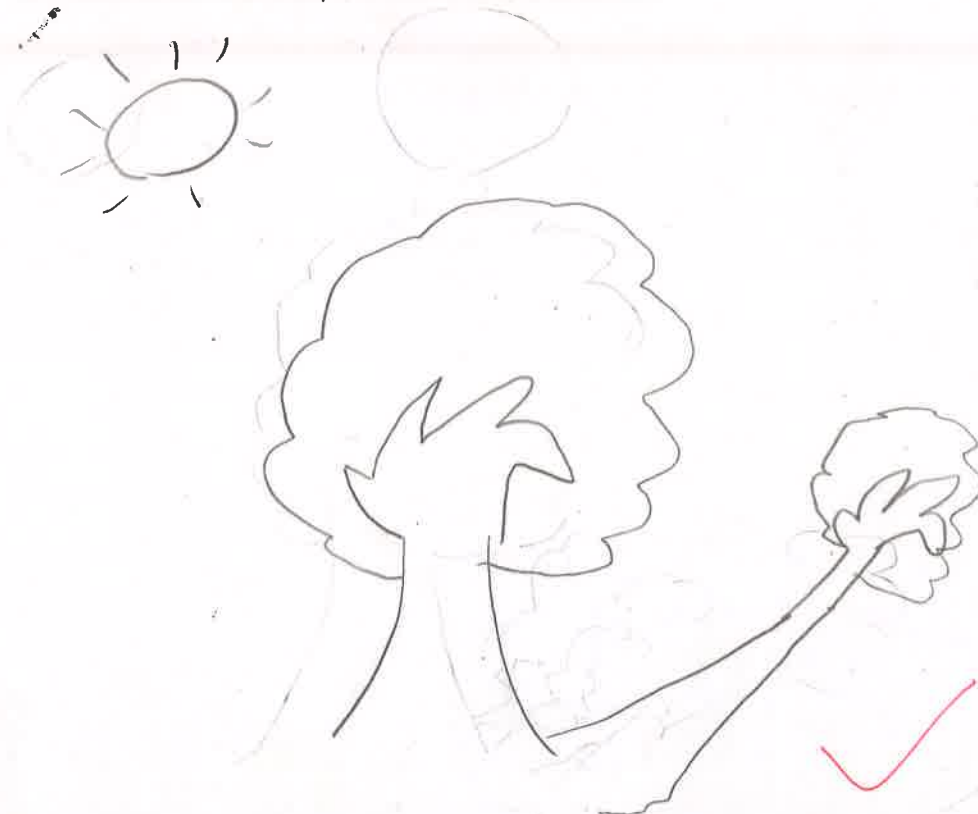
Watch a video of The Sun (3:35) and discuss the following questions in a small group.

1. Why we see the sun seems much bigger and brighter than any other star? because it is close by to
2. How long has it been shining in space? 4.5 billion years
3. How many planets the size of our earth can fit inside the sun? 150 000 000

Notes: 1 因為它距離地球最近
2 4.5 億年
3 1300000 顆

Thinking

1. Please draw the tree, the sun and the shadow.



A7

Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? A: hot ✓
2. What can you make by playing shadow games? A: bird ✓
3. The relationship between of sun position and shadow? A: 太陽越高: 影子越短 ✓

Language

Earth 地球	distance 距離	surface 表面
temperature 溫度	age 年數	mass 重量

1. The mass of the sun is 333 thousand times the mass of Earth.
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4. The distance from the sun to the earth is 150 million kilometers.

Content

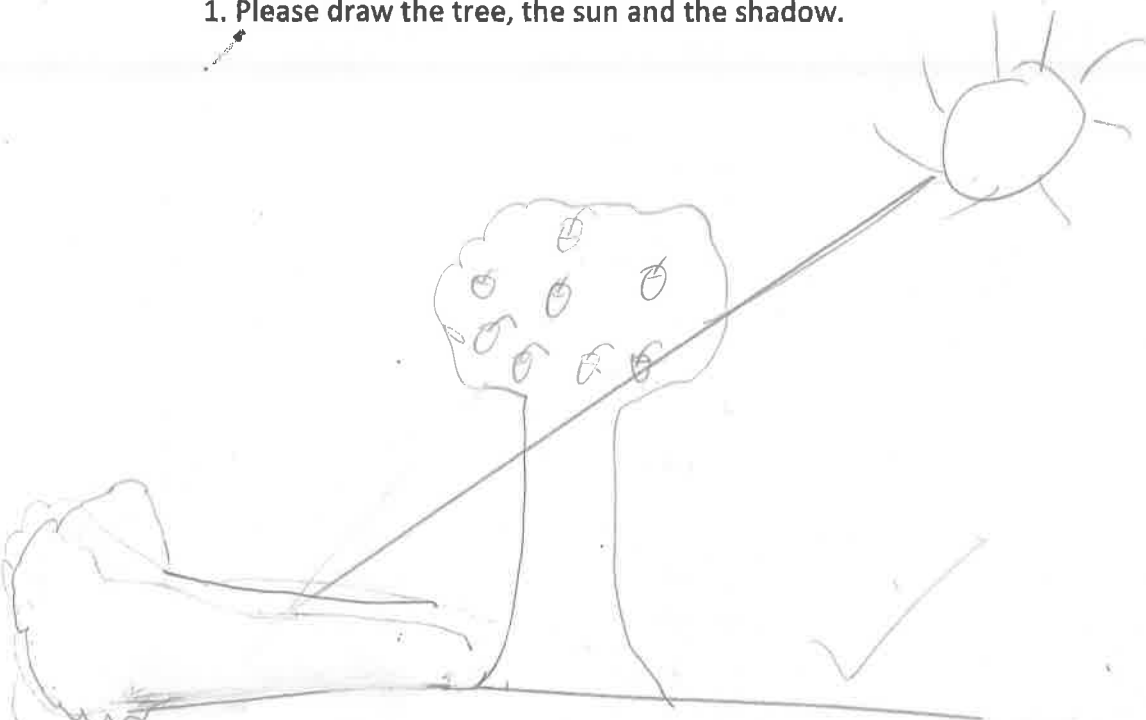
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 因為它距離我們最近
2. 4.5億年
3. 130,000 顆

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? hot, Bright
2. What can you make by playing shadow games? bag
3. The relationship between of sun position and shadow? 太陽越大, 影子越長

Language

Earth <u>地球</u>	distance	surface <u>表面</u>
temperature <u>溫度</u>	age <u>年</u>	mass

1. The mass of the sun is 333 thousand times the mass of Earth
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Content

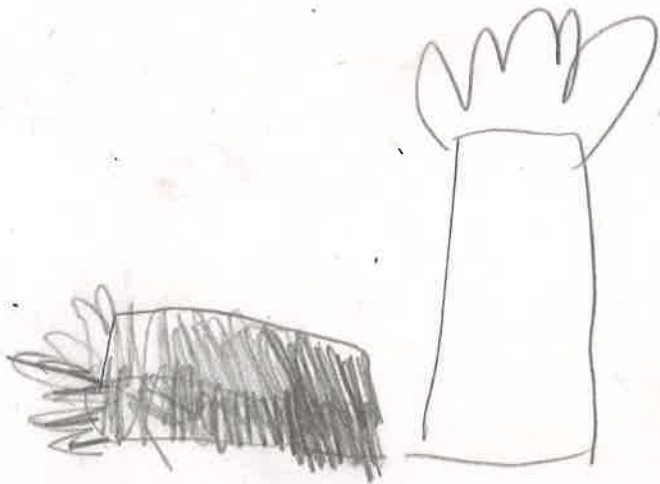
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: ① 因為距離很近
② 4.5 億年
③ 1300000 顆

Thinking

1. Please draw the tree, the sun and the shadow.



A+

Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? hot, bright ✓
2. What can you make by playing shadow games? swan, dog ✓
3. The relationship between of sun position and shadow?

太陽高度角越大影子越短

Language

Earth x	distance	surface x
temperature x	age x	mass

1. The mass of the sun is 333 thousand times the mass of Earth.
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3. The age of the sun is 4.5 billion years.
4. The Earth from the sun to the earth is 150 million kilometers.

distance ✓

Content

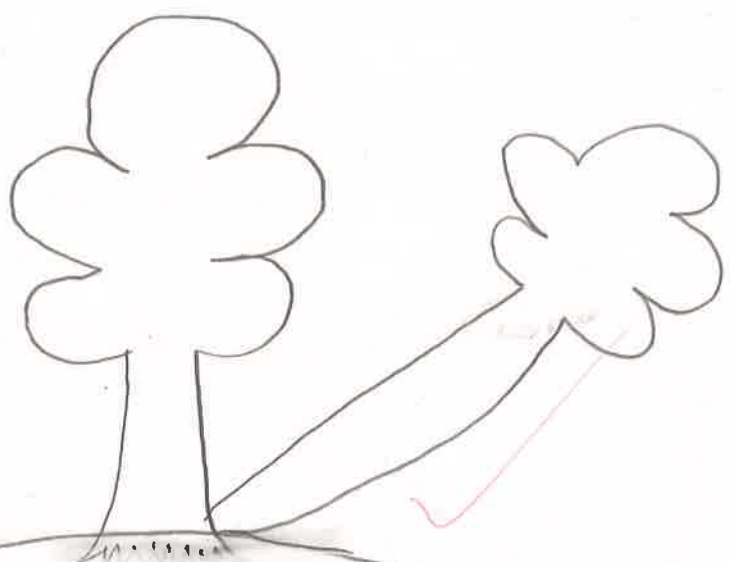
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 因為它最近
2. 4.5億年
3. 1300000顆

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? *Let trees grow. Bright.*
2. What can you make by playing shadow games? *A spider. A bird.*
3. The relationship between of sun position and shadow? *Shadow would be longer or shorter.*
太陽高度角

Language

Earth	distance	surface
temperature	age	mass

質量
mass

1. The mass of the sun is 333 thousand times the mass of Earth.
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4.5 billion years.
4. The distance from the sun to the earth is 150 million kilometers.
距離

Content

Watch a video of The Sun (3:35) and discuss the following questions in a small group.

1. Why we see the sun seems much bigger and brighter than any other star? *Because it is close to us.*
2. How long has it been shining in space? *4.5 billion years.*
3. How many planets the size of our earth can fit inside the sun? *150000000*

Notes:	<i>1. Because it is close to us.</i>
	<i>2. 4.5 billion years.</i>
	<i>3. 1300000 顆</i>

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? *bright, hot, in 6000*
2. What can you make by playing shadow games? *影子越長*
3. The relationship between of sun position and shadow? *太陽越高影子越短*

Language

Earth <i>地球</i>	distance <i>距離</i>	surface <i>表面</i>
temperature <i>溫度</i>	age	mass

1. The mass of the sun is 333 thousand times the mass of Earth.
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Content

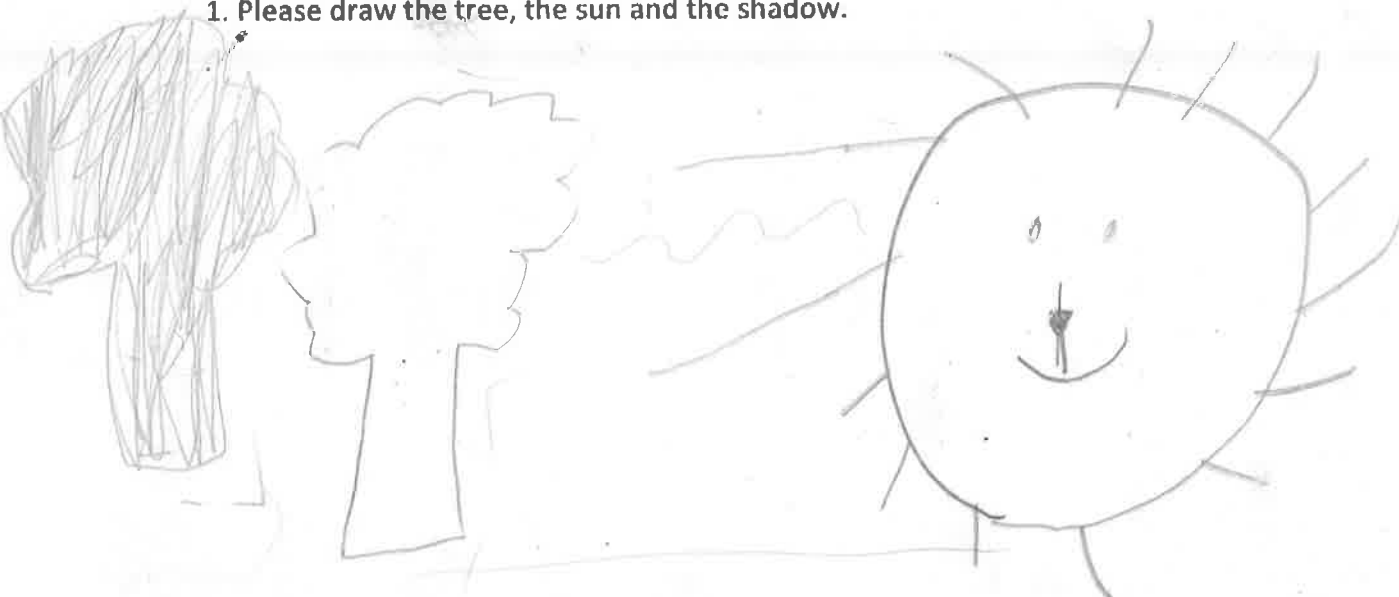
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: <i>1. 因為太陽距離我們很近。</i>
<i>2. 4.5 億年</i>
<i>3. 13,000,000 顆</i>

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? Very hot.
2. What can you make by playing shadow games? Pog.
3. The relationship between of sun position and shadow?

高度角越高，影子越短。

Language

Earth	distance	surface
temperature	age	mass

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Content

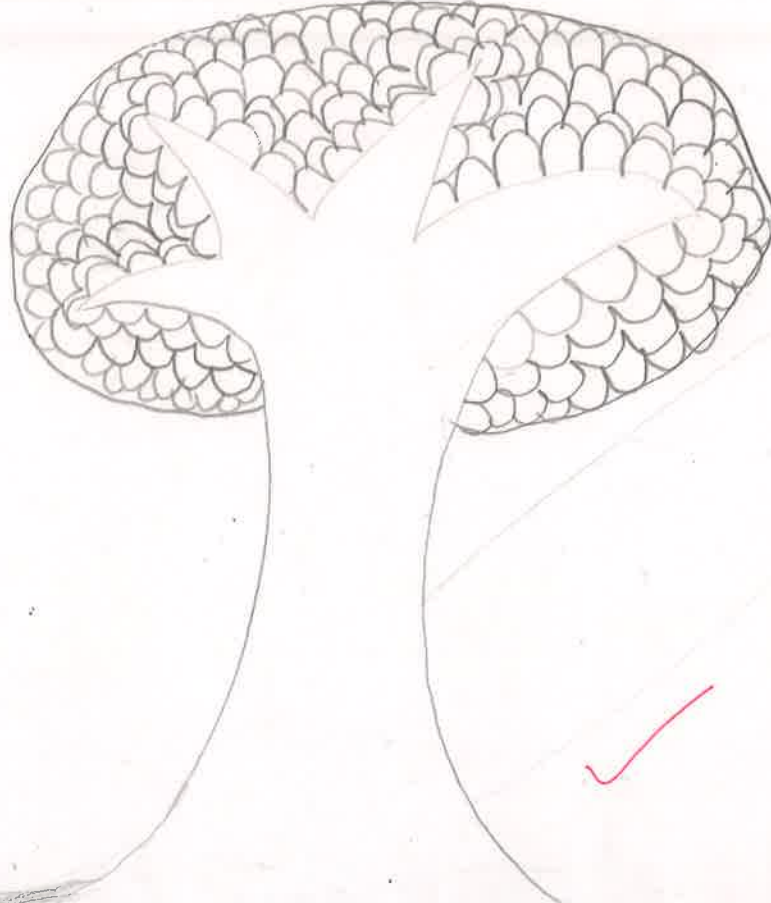
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes:	1. 這顆太陽離地球最近
	2. 4.5 billion years
	3. 1 million 3 thousand Earth

Thinking

1. Please draw the tree, the sun and the shadow.



A

Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? hot, light, warm ✓
2. What can you make by playing shadow games? dog, bird ✓
3. The relationship between of sun position and shadow? When the sun position is high, the shadow is short.

Language

Earth	distance	surface
temperature	age	mass

1. The mass of the sun is 333 thousand times the mass of Earth.
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4.5 billion years.
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Content

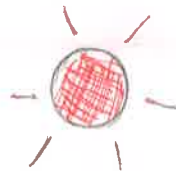
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 因為太陽是離地球最近的恆星。
2. 4.5 億年
3. 1300000 顆地球

Thinking

1. Please draw the tree, the sun and the shadow.



A++

Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? hot · light ✓
2. What can you make by playing shadow games? I will be bird. ✓
3. The relationship between of sun position and shadow? The sun will be high, so the shadow will be short. ✓

關係

Language

Earth 地球	distance 距離	surface 表面
temperature 溫度	age 年紀	mass 質量

1. The mass of the sun is 333 thousand times the mass of earth.
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4.5 billion years.
4. The distance from the sun to the earth is 150 million kilometers. ✓

Content

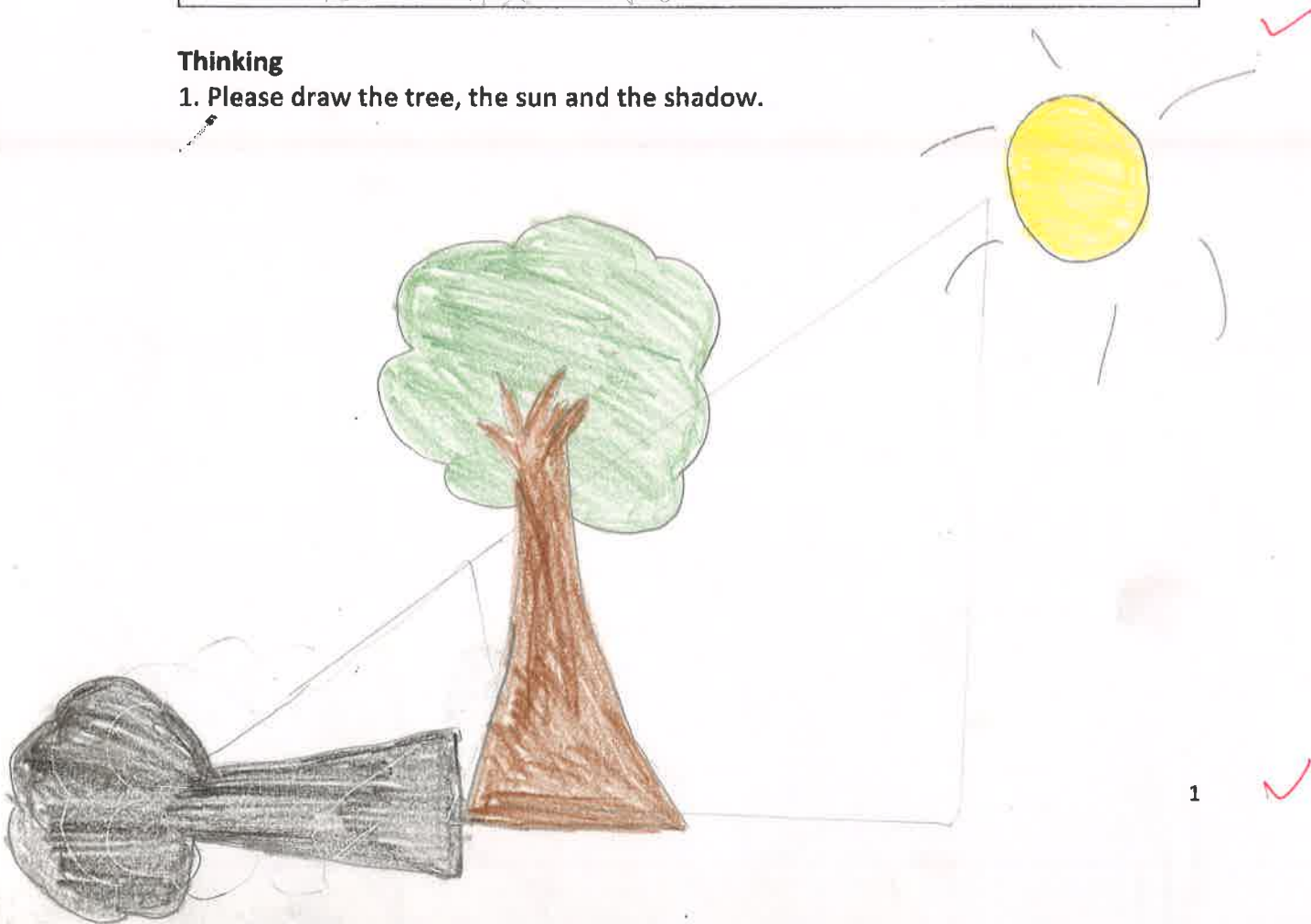
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2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 因為它距離我們最近。
2. 4.5億年。
3. 1300000顆地球。

Thinking

1. Please draw the tree, the sun and the shadow.



A+++

Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? hot, light
2. What can you make by playing shadow games? I will be bird.
3. The relationship between of sun position and shadow? The sun will be hight, so the shadow will be short.

Language

Earth	distance	surface
temperature 溫度	age 年齡	mass

1. The mass of the sun is 333 thousand times the mass of Earth.
2. The temperature of the sun's surface is 5,500 degrees °C
3. The age of the sun is 4.5 billion years.
4. The distance from the sun to the earth is 150 million kilometers.
distance (距離)

Content

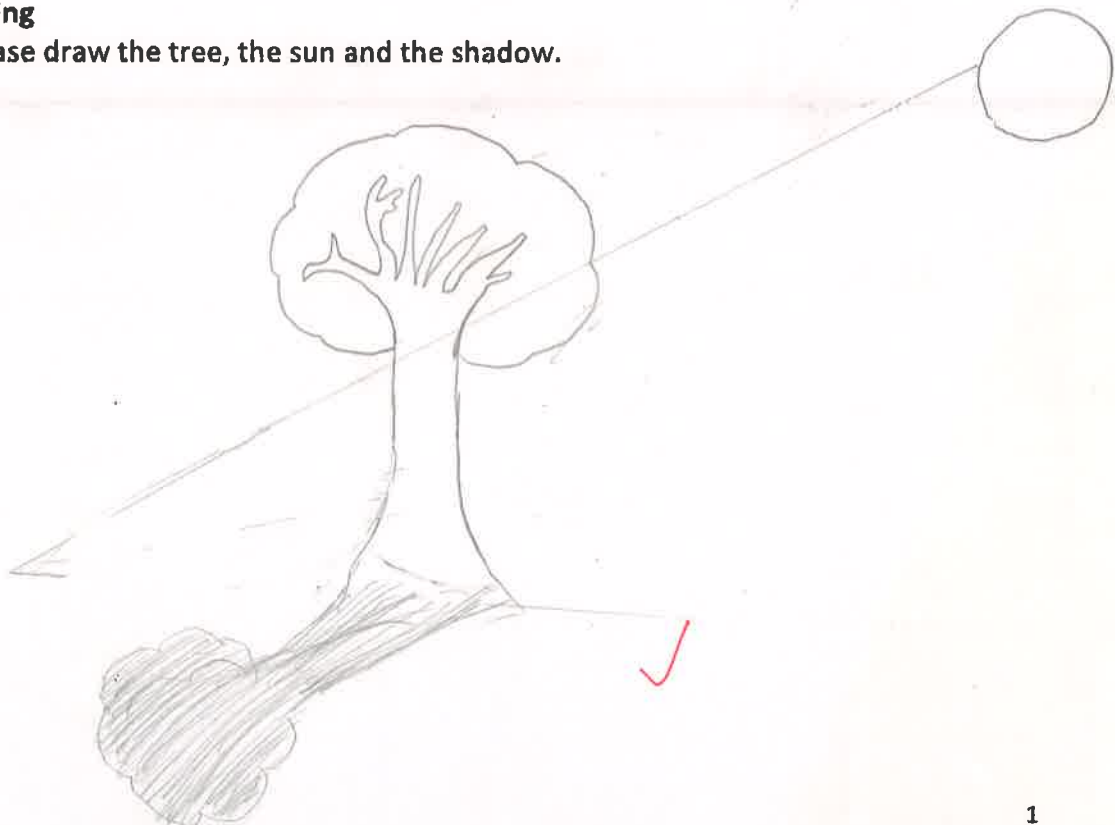
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 其他星球比較遠
2. 4.5億
3. 1300000個地球

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? 熱
2. What can you make by playing shadow games? 手遊
3. The relationship between of sun position and shadow? 太陽東升西落, 影子西升東落

Language

Earth	distance	surface	<u>mass</u>
temperature	age	mass	<u>Earth</u>

1. The mass of the sun is 333 thousand times the age of earth.
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3. The age of the sun is 4.5 billion years.
4. The distance from the sun to the earth is 150 million kilometers.

Content

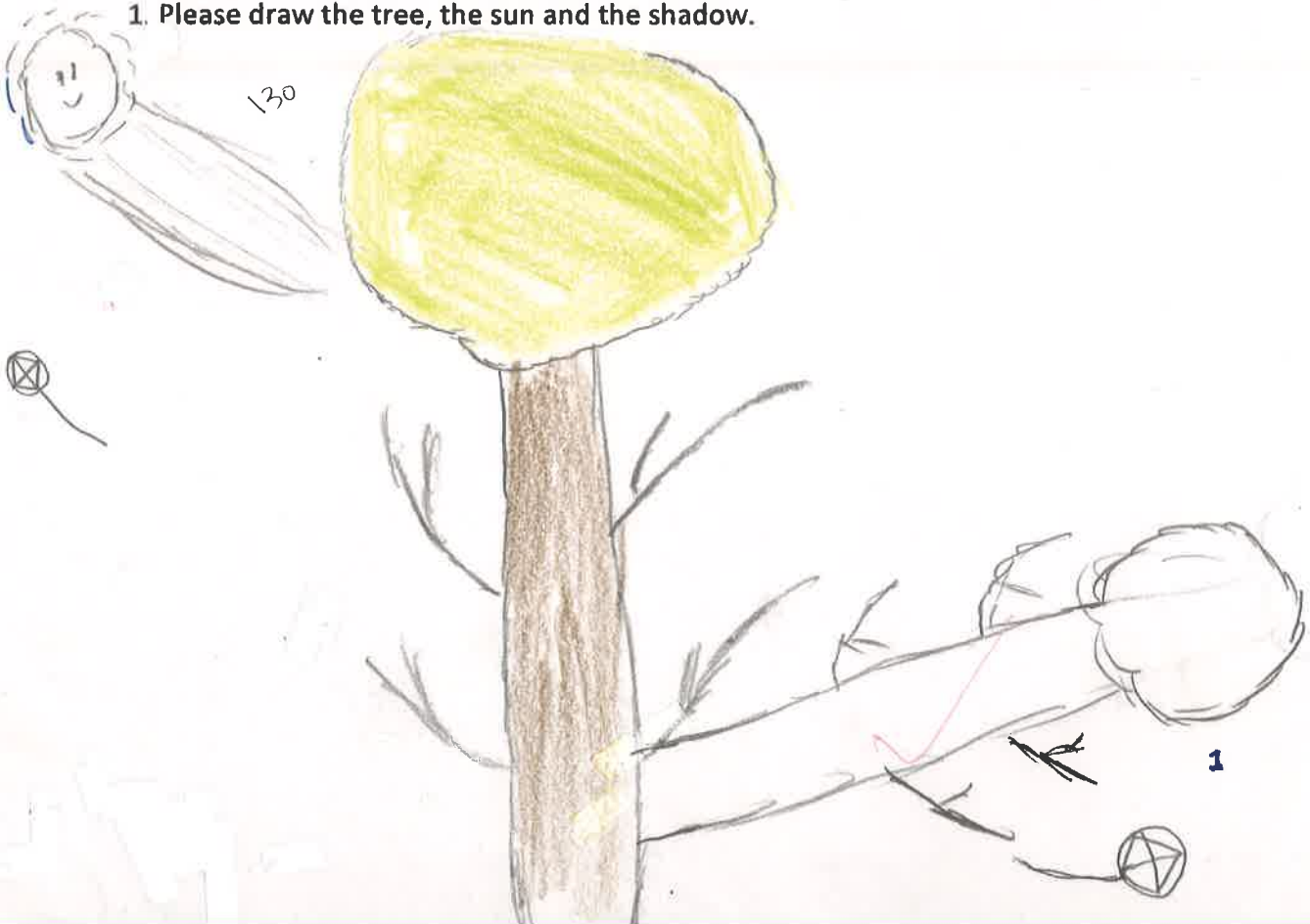
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 因為離我們最近
2. 4點五十一億
3. 130萬

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? hot ✓
2. What can you make by playing shadow games? dog ✓
3. The relationship between of sun position and shadow? 高度角高 影子低 ✓

Language

Earth	distance	surface
temperature <u>溫度</u>	age <u>年齡</u>	mass <u>質量</u>

1. The mass of the sun is 333 thousand times the mass of Earth.
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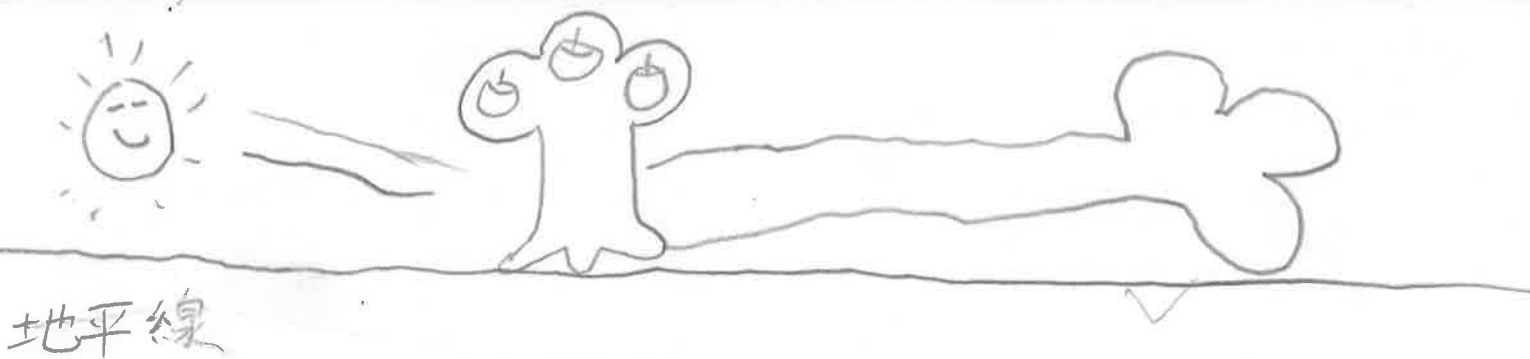
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2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 1. 因為離我們比較近
2. 4.5億年
3. 1300000顆顆

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? light and hot ✓
2. What can you make by playing shadow games? dog, spider
3. The relationship between of sun position and shadow? 太陽越高, 影子越短

shadow ↓

太陽越高, 影子越短

Language

Earth	distance	surface 表面
temperature 溫度	age	mass 質量

1. The mass of the sun is 333 thousand times the mass of Earth.
2. The temperature of the sun's surface is 5,500 degrees °C
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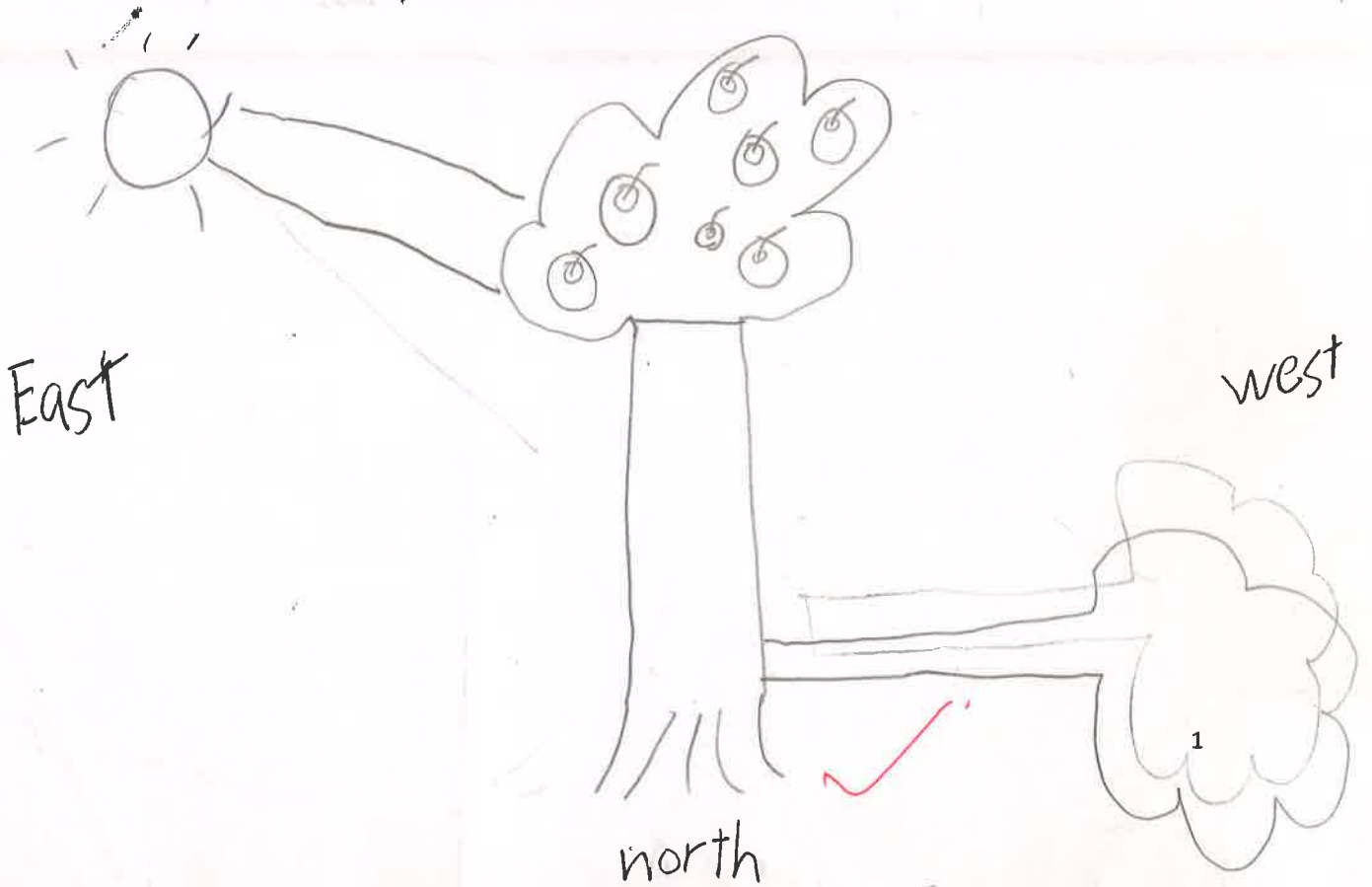
1. Why we see the sun seems much bigger and brighter than any other star? because
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes:	<u>1. 因為它離我們最近</u>
	<u>2. 4.5 億年</u>
	<u>3. 130000 顆</u>

Thinking

1. Please draw the tree, the sun and the shadow.

south



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? 光和熱
2. What can you make by playing shadow games? pig. pig. bog
3. The relationship between of sun position and shadow?

太陽越^高向^東 影子越^短

Language

Earth	distance	surface
temperature	age	mass

1. The mass of the sun is 333 thousand times the mass of Earth.
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Content

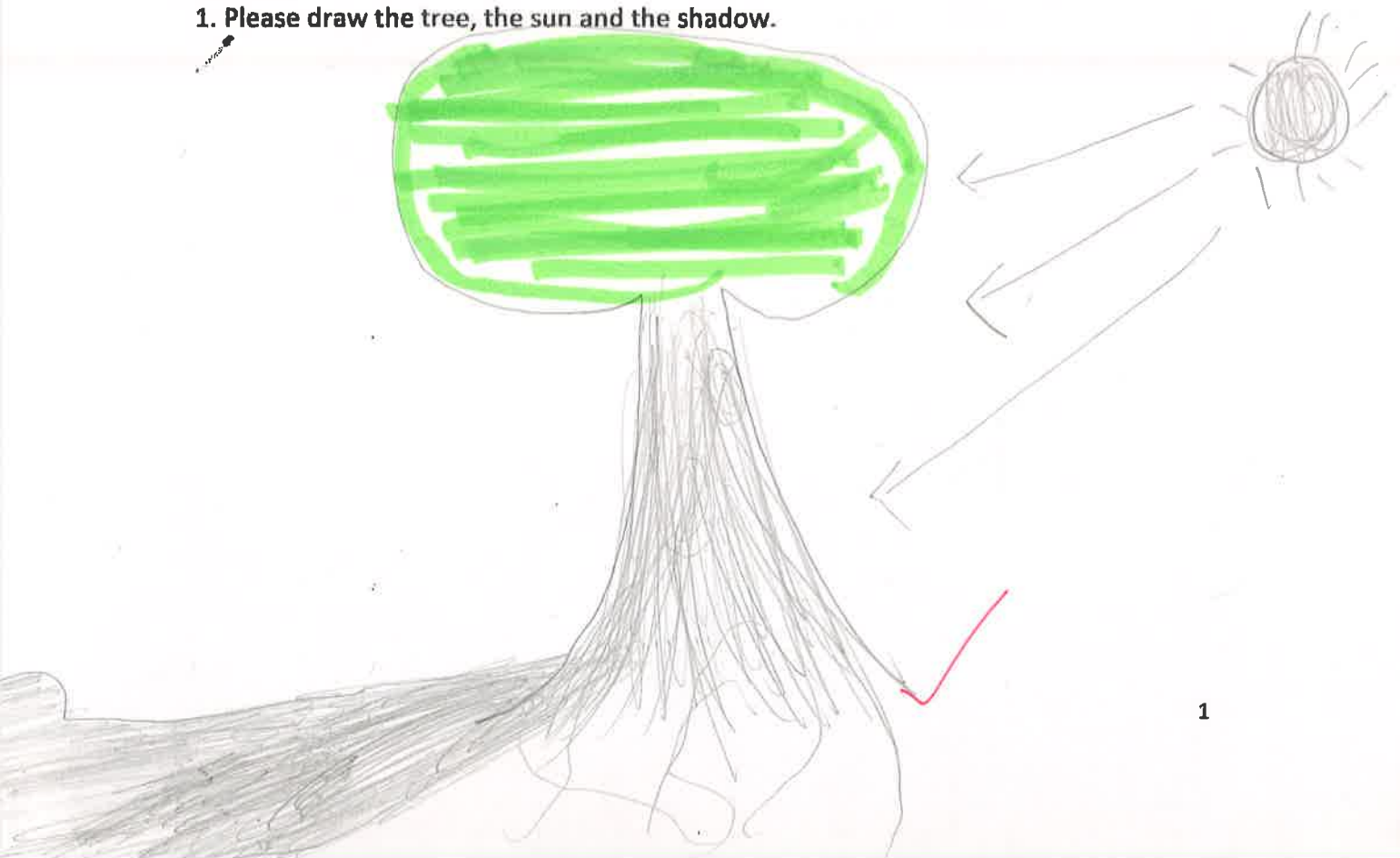
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1. Why we see the sun seems much bigger and brighter than any other star? 它離地球最近。
2. How long has it been shining in space? 4.5 億年
3. How many planets the size of our earth can fit inside the sun? 130 萬顆

Notes: 1. 它離地球最近
2. 4.5 億年
3. 130 萬顆

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do you think of the sun? hot, fire
2. What can you make by playing shadow games? dog, butterfly
3. The relationship between of sun position and shadow? 太陽越高, 影子越短

Language

Earth	distance	surface
temperature	age	mass

1. The age of the sun is 333 thousand times the mass of Earth.
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4. The distance from the sun to the earth is 150 million kilometers.

Content

Watch a video of The Sun (3:35) and discuss the following questions in a small group.

1. Why we see the sun seems much bigger and brighter than any other star? 因為它是離地球最近的外行星
2. How long has it been shining in space? 4.5億年
3. How many planets the size of our earth can fit inside the sun?

Notes: <u>因為它離地球最近</u>
<u>2. 4.5億年</u>
<u>3. 1,300,000個</u>

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? *hot*
2. What can you make by playing shadow games? *dog, bird, spider*
3. The relationship between of sun position and shadow? *When the sun is higher then the shadow will be shorter.*

Language

Earth	distance <i>距離</i>	surface <i>表面</i>
temperature	age	mass <i>質量</i>

1. The mass of the sun is 333 thousand times the mass of Earth.
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Content

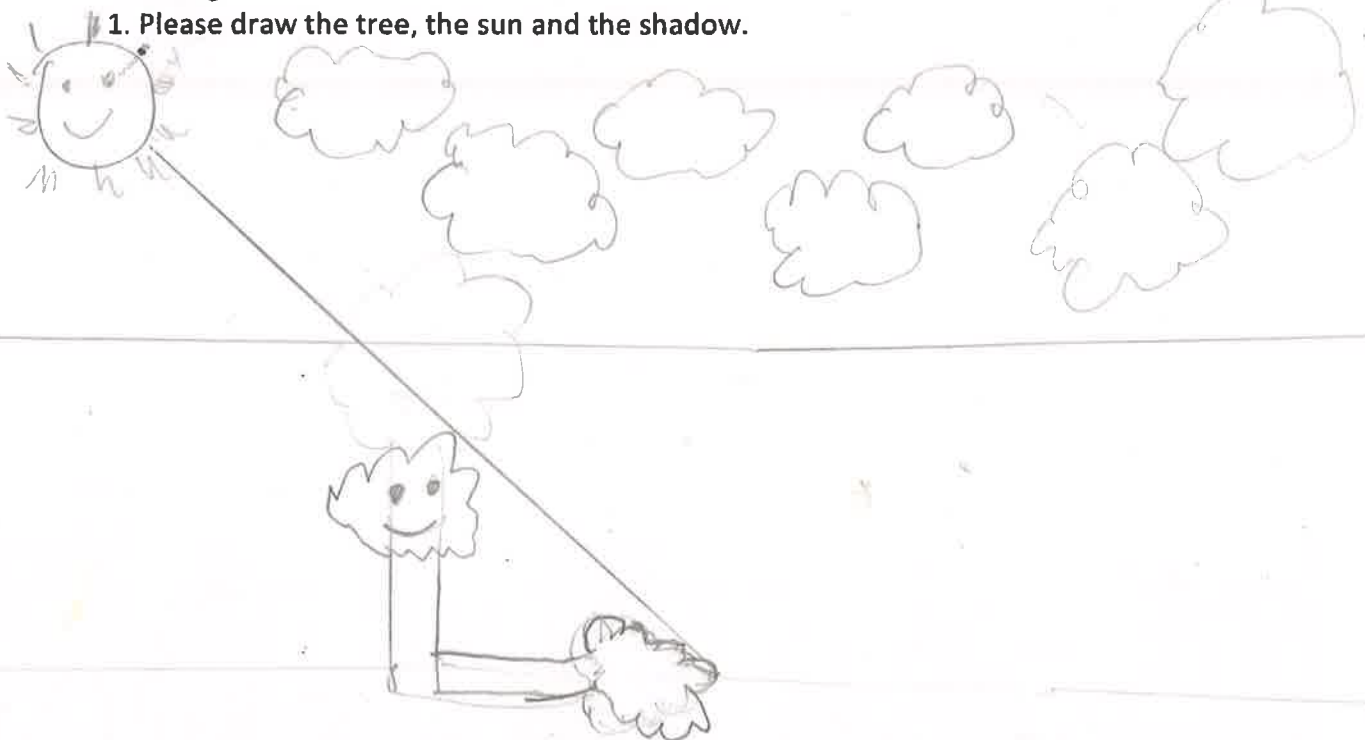
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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space? *4.5 billion years.*
3. How many planets the size of our earth can fit inside the sun? *1300,000*

Notes: <i>The other star is much farther than the sun</i>
<i>4.5 billion years.</i>
<i>1300,000 years</i>

Thinking

1. Please draw the tree, the sun and the shadow.



Observing the sun-A planet that glows and heats

Warmer

1. What do think of the sun? so hot,
2. What can you make by playing shadow games? snail
3. The relationship between of sun position and shadow?

高度角越高 影子越短

關係

距離

Language

Earth	distance	surface
temperature	age	mass

質量

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1. Why we see the sun seems much bigger and brighter than any other star?
2. How long has it been shining in space?
3. How many planets the size of our earth can fit inside the sun?

Notes: 太陽
因為離我們最近
4.5億年
1300 000 顆地球

Thinking

1. Please draw the tree, the sun and the shadow.

