

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角, 方位角 ✓

2. What should we prepare for stargazing at night?

Astrological Displays.

3. In memory, where do you see the most stars?

我家樓頂 ✓

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth ✓ : Data that know the direction of the stars.

2. compass ✓ : Know the tools of North, East, South.

3. star ✓ : A twinkling light in the sky at night.

4. flashlight ✓ : Handheld light-emitting tool.

5. Astrological Displays ✓ : Tools used to find the stars in the sky.

6. height angle ✓ : Data that know the height of the stars.

Content: night stargazing record

Date: 11/3/24 Time: 21:36 Place: 我家樓頂

Picture

3月24
北斗七星

西

北

東

Think: Let's watching the videos

1. 綻放真台灣: 星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說. 2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角、方位角

2. What should we prepare for stargazing at night?

外套、指北針、星座盤、錶、防蚊液、手電筒、紅色

3. In memory, where do you see the most stars?

我家樓頂

玻璃紙

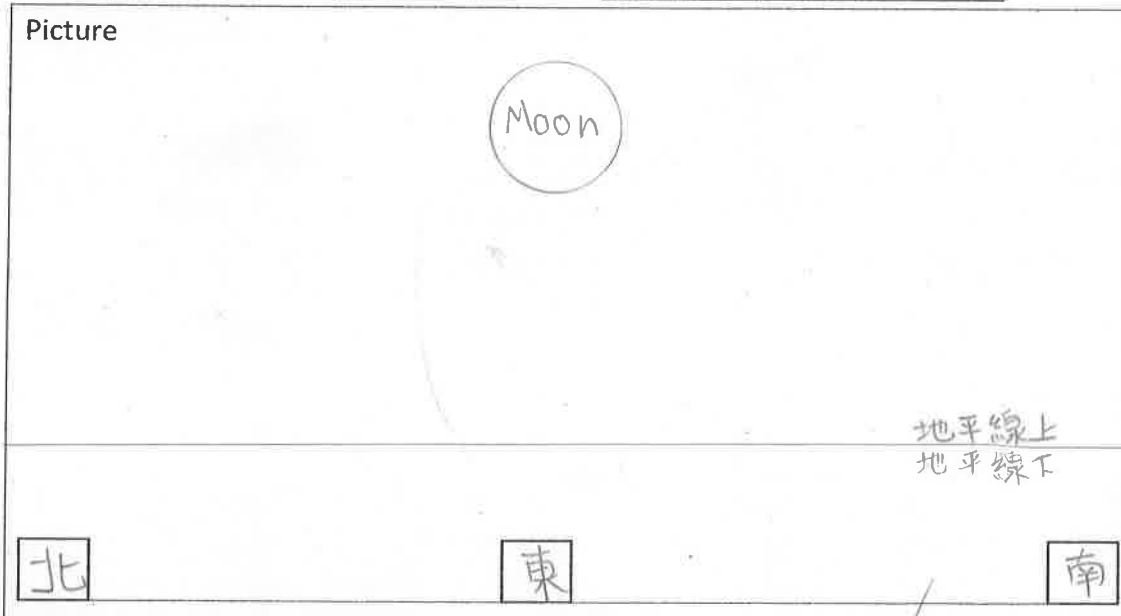
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth ✓ : Data that know the direction of the stars.
2. compass ✓ : Know the tools of North, East, South.
3. star ✓ : A twinkling light in the sky at night.
4. flashlight ✓ : Handheld light-emitting tool.
5. Astrological Displays ✓ : Tools used to find the stars in the sky.
6. height angle ✓ : Data that know the height of the stars.

Content: night stargazing record

Date: 11/3/20 Time: 21:36 Place: 我家樓頂



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角、方位角

2. What should we prepare for stargazing at night?

① 指北針 ② 星座盤 ③ 手錶 ④ 防蚊液 ⑤ 禦寒衣物 ⑥ 手電筒 ⑦ 紅色玻璃紙

3. In memory, where do you see the most stars?

大坑山、陽明山

Concept

star (星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth: Data that know the direction of the stars.
2. compass: Know the tools of North, East, South.
3. star: A twinkling light in the sky at night.
4. flashlight: Handheld light-emitting tool.
5. Astrological display: tools used to find the stars in the sky.
6. height angle: Data that know the height of the stars.

Content: night stargazing record

Date: 3月24 Time: 9:00 Place: 陽明山

Picture

Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

At

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?
高度角和方位角
2. What should we prepare for stargazing at night?
cell phone flashlight 星座盤
3. In memory, where do you see the most stars? 山上

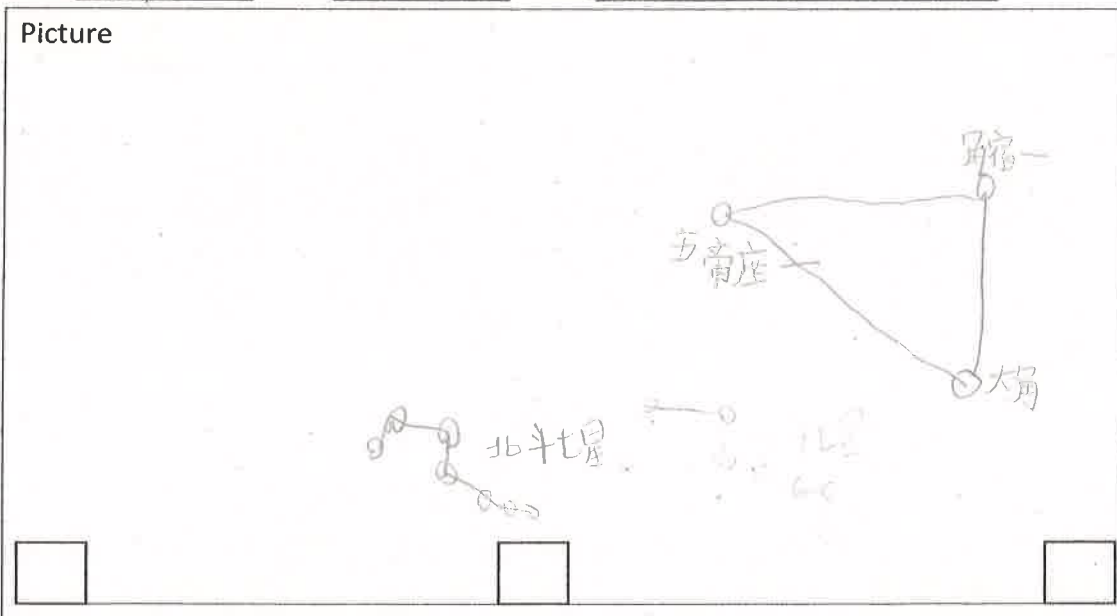
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.
2. compass : Know the tools of North, East, South.
3. star : A twinkling light in the sky at night.
4. flashlight : Handheld light-emitting tool.
5. Astrological Display : Tools used to find the stars in the sky.
6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9:00 Place: NCUES



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

height angle - azimuth

2. What should we prepare for stargazing at night?

compass, Astrological Displays, Watch, 防蚊液, 禦寒衣物, flashlight, 紅色玻璃紙

3. In memory, where do you see the most stars?

貓空山上

Concept

star (恆星) ✓	Astrological Displays (星座盤) ✓	height angle (高度角) ✓
azimuth (方位角) ✓	compass (指北針) ✓	flashlight (手電筒) ✓

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

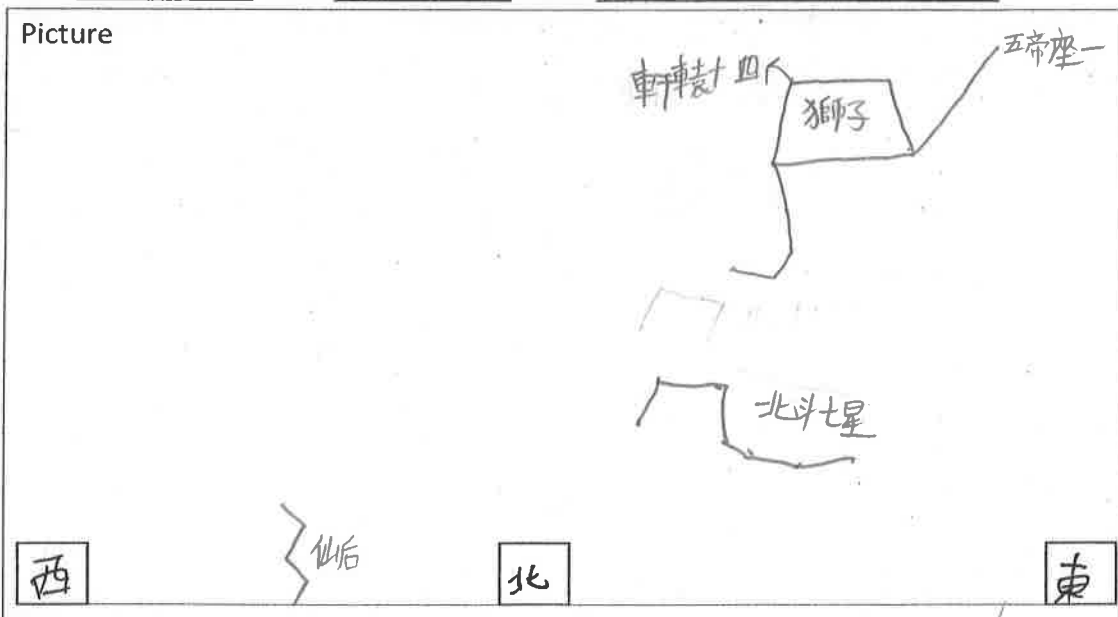
4. flashlight : Handheld light-emitting tool.

5. Astrological Displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9 o'clock Place: ?



Think: Let's watching the videos

1. 綻放真台灣: 星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

At

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角 方位

2. What should we prepare for stargazing at night?

手木樂、指南針、手電筒、星座盤、手錶

3. In memory, where do you see the most stars?

我家的門口

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. Azimuth: Data that know the direction of the stars.

2. Compass: Know the tools of North, East, South.

3. star: A twinkling light in the sky at night.

4. flashlight: Handheld light-emitting tool.

5. Astrological Displays: Tools used to find the stars in the sky.

6. height angle: Data that know the height of the stars.

Content: night stargazing record

Date: 9:00 Time: 3/24 Place: 教室

Picture

Think: Let's watching the videos

1. 綻放真台灣：星空搜攝手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/FQXpDfW46PM]

Attf

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

height angle and azimuth.

2. What should we prepare for stargazing at night?

cloth, flashlight, watch, Astrological Displays.

3. In memory, where do you see the most stars?

苗栗山上。

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

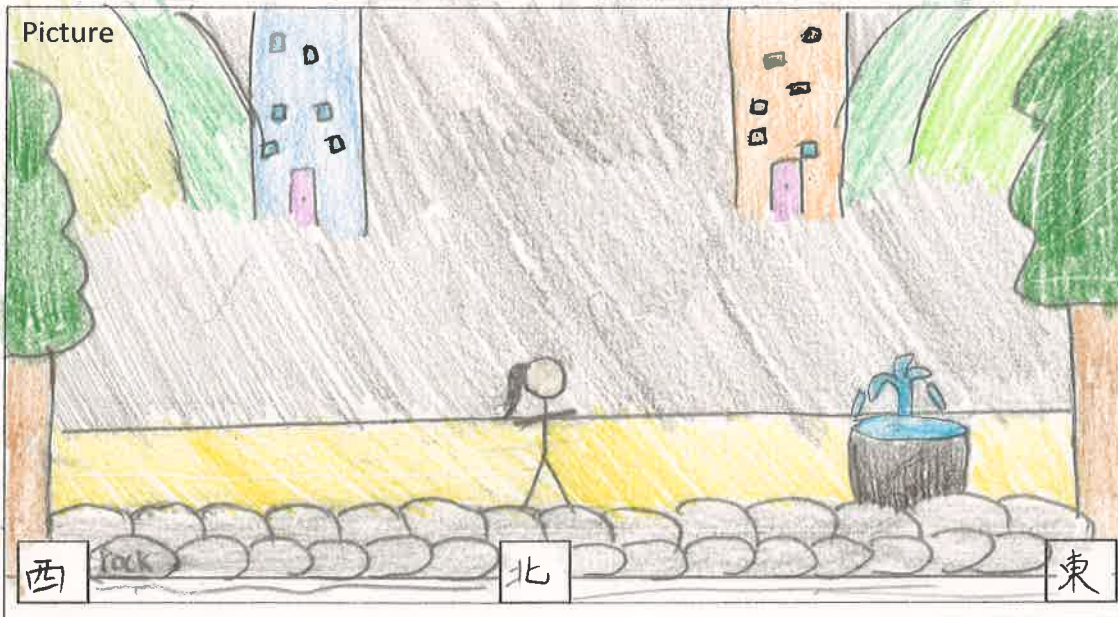
4. flashlight : Handheld light-emitting tool.

5. Astrological Displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/22 Time: 9:00 Place: 我家樓頂



+100

Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

A+

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角 方位角

2. What should we prepare for stargazing at night?

手機、外套、手電筒、指北針、星座盤

3. In memory, where do you see the most stars?

我家頂樓

Concept

star (恆星)	Astrological Displays (星座盤) ✓	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

寫英文

1. 方位角 : Data that know the direction of the stars.

2. 指北針 : Know the tools of North, East, South.

3. 恆星 : A twinkling light in the sky at night.

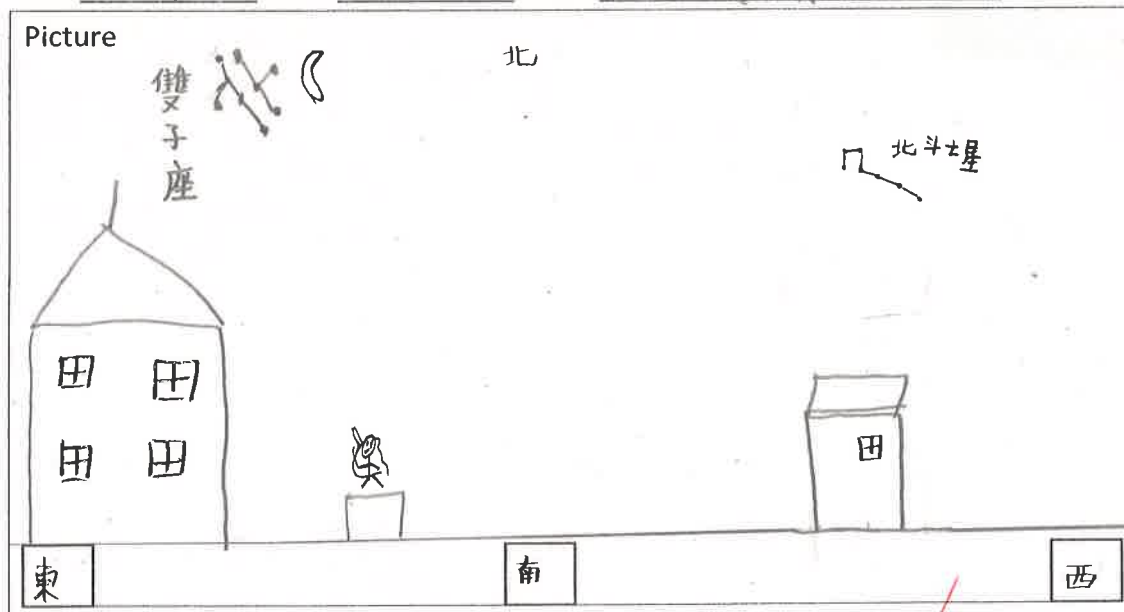
4. 手電筒 : Handheld light-emitting tool.

5. 星座盤 : Tools used to find the stars in the sky.

6. 高度角 : Data that know the height of the stars.

Content: night stargazing record

Date: 2/4 Time: 9:00 Place: 我家樓頂



Think: Let's watching the videos

- 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
- 星象解說.2021 年 1 月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What (information) do we need to describe the position of a star in the sky?

訂
高度角 and 方位角

2. What should we prepare for stargazing at night?

Compass, flashlight, cloth, watch

3. In memory, where do you see the most stars?

阿里山或墾丁

Astrological Displays

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

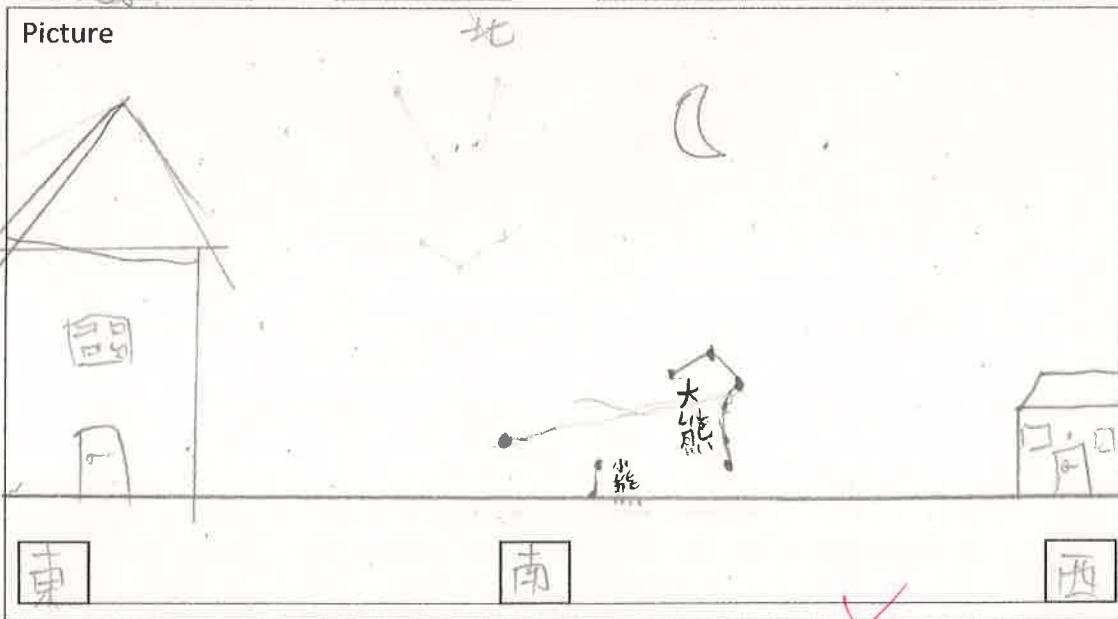
4. flashlight : Handheld light-emitting tool.

5. Astrological Displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3月12日 Time: 8:00 Place: 文山區



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

height angle, azimuth

2. What should we prepare for stargazing at night?

flashlight, watch, sweater, cloth, compass, Astrological Displays

3. In memory, where do you see the most stars?

墾丁

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

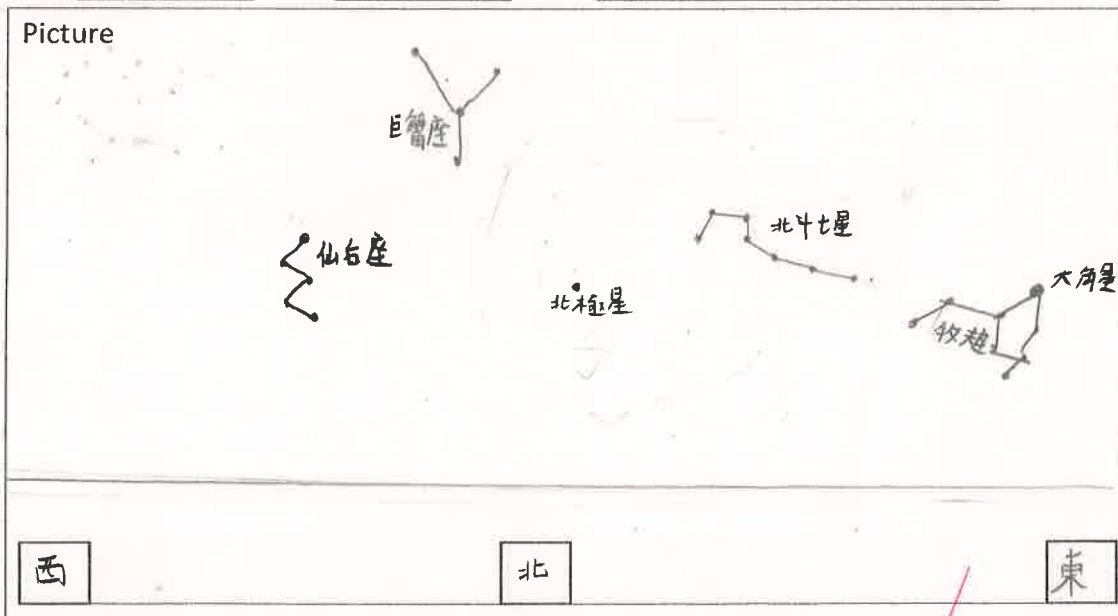
4. flashlight : Handheld light-emitting tool.

5. Astrological Displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9:00 Place: NCCUES



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfw46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

height angle and azimuth.

2. What should we prepare for stargazing at night?

(準備)

sweater, flashlight, compass,

Astrological Displays.

3. In memory, where do you see the most stars?

路上

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

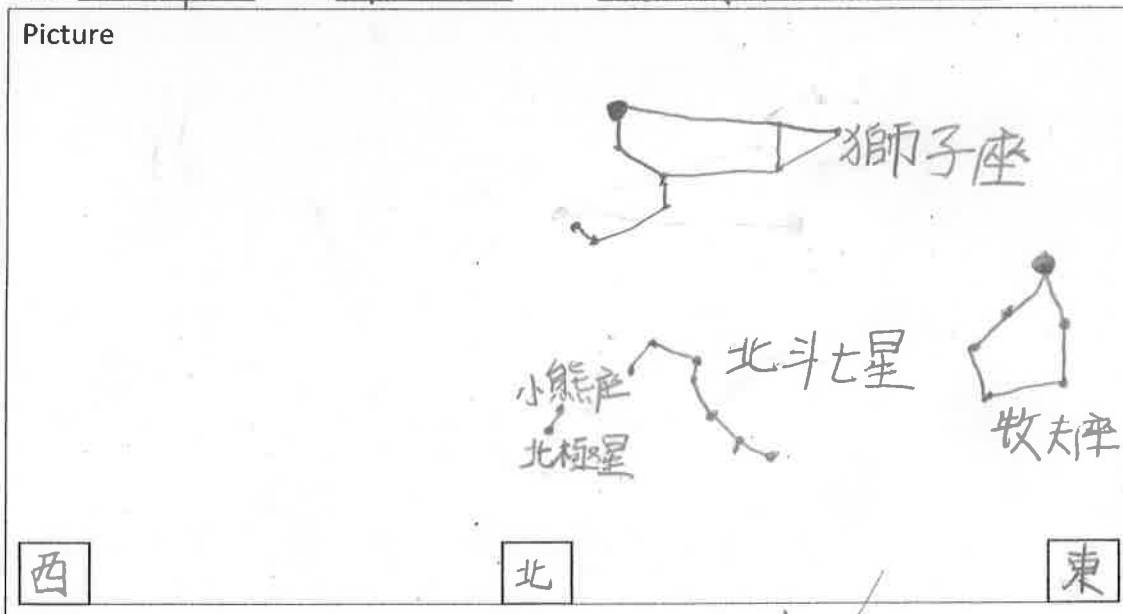
4. flashlight : Handheld light-emitting tool.

5. Astrological Displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9:00 Place: NCCUES



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角 方位角

2. What should we prepare for stargazing at night?

flashlight. Astrological Displays. compass

3. In memory, where do you see the most stars?

陽明山

陽明山

Concept

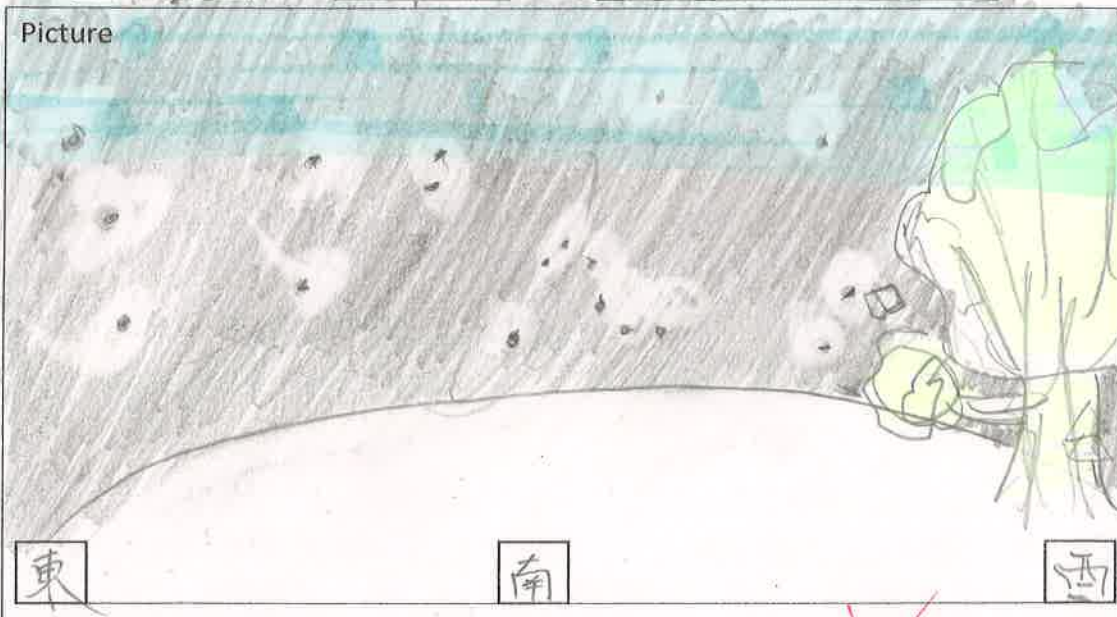
star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth ✓ : Data that know the direction of the stars.
2. compass ✓ : Know the tools of North, East, South.
3. star ✓ : A twinkling light in the sky at night.
4. flashlight ✓ : Handheld light-emitting tool.
5. astrological displays ^{工具} : Tools used to find the stars in the sky.
6. height angle ✓ : Data that know the height of the stars.

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a a a

Content: night stargazing record

Date: 3/27 Time: 9pm Place: 政大實小



要畫地平線

Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

A++

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角、方位角

2. What should we prepare for stargazing at night?

指北針、手電筒、外套、星座盤

3. In memory, where do you see the most stars?

指南山上

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

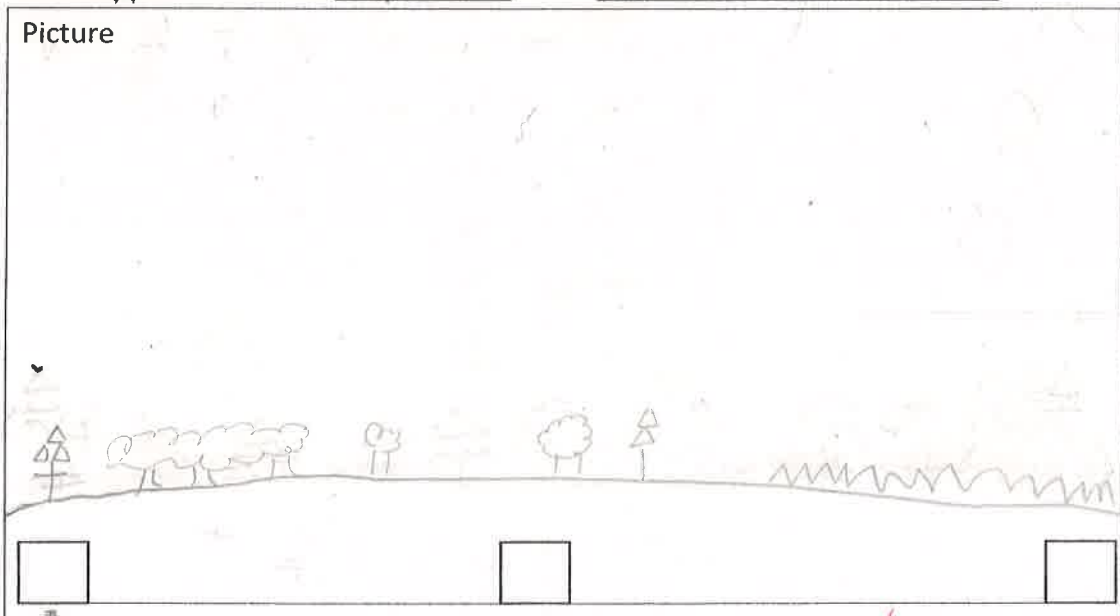
4. Flashlight : Handheld light-emitting tool.

5. Astrological Displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/11 Time: 11:00 Place: 貓空



Think: Let's watching the videos

北

東西

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

At

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角 方位

2. What should we prepare for stargazing at night?

星座盤 指北針 手電筒 外套 手錶 防蚊液

3. In memory, where do you see the most stars?

北海道

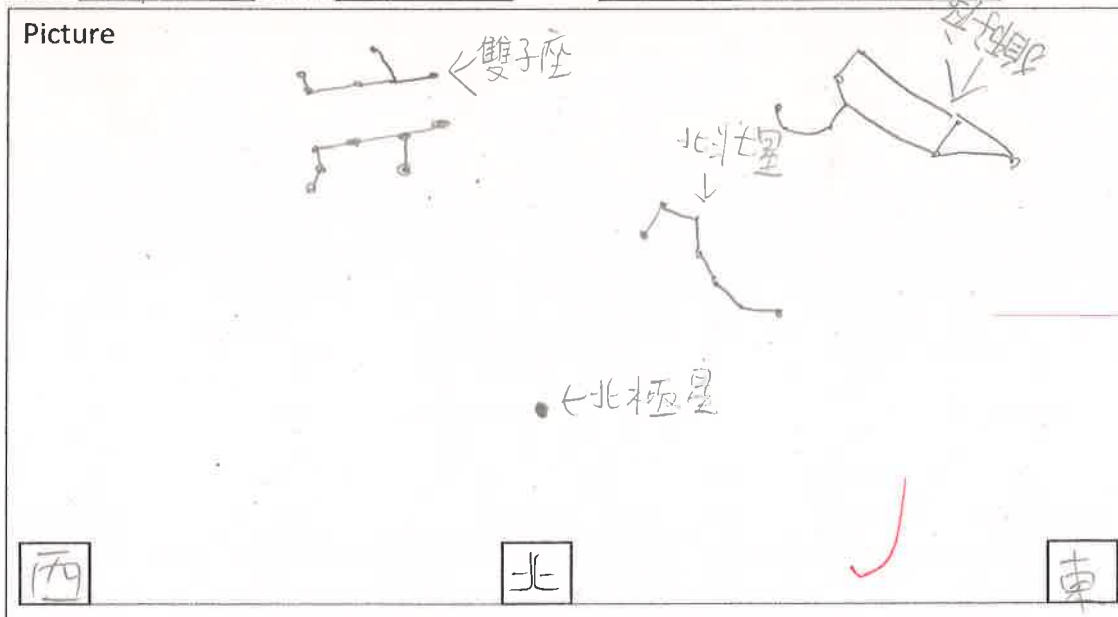
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.
2. compass : Know the tools of North, East, South.
3. star : A twinkling light in the sky at night.
4. flashlight : Handheld light-emitting tool.
5. Astrological Displays : Tools used to find the stars in the sky.
6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3月24日 Time: 九點 Place: 政大寶小



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

A+

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角
方位角

2. What should we prepare for stargazing at night?

星座盤 指北針, 手電筒, 外套

3. In memory, where do you see the most stars?

合歡山

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. 方位角 : Data that know the direction of the stars.

2. 指北針 : Know the tools of North, East, South.

3. 恆星 : A twinkling light in the sky at night.

4. 手電筒 : Handheld light-emitting tool.

5. 星座盤 : Tools used to find the stars in the sky.

6. 高度角 : Data that know the height of the stars.

寫英文

Content: night stargazing record

Date: 週四 Time: 8:00AM Place: Ncrues

Picture

西 南 東

Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

A

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

Height angle and azimuth

2. What should we prepare for stargazing at night?

Sweater, flashlight, compass, watch, anti-mosquito solution, astrological displays

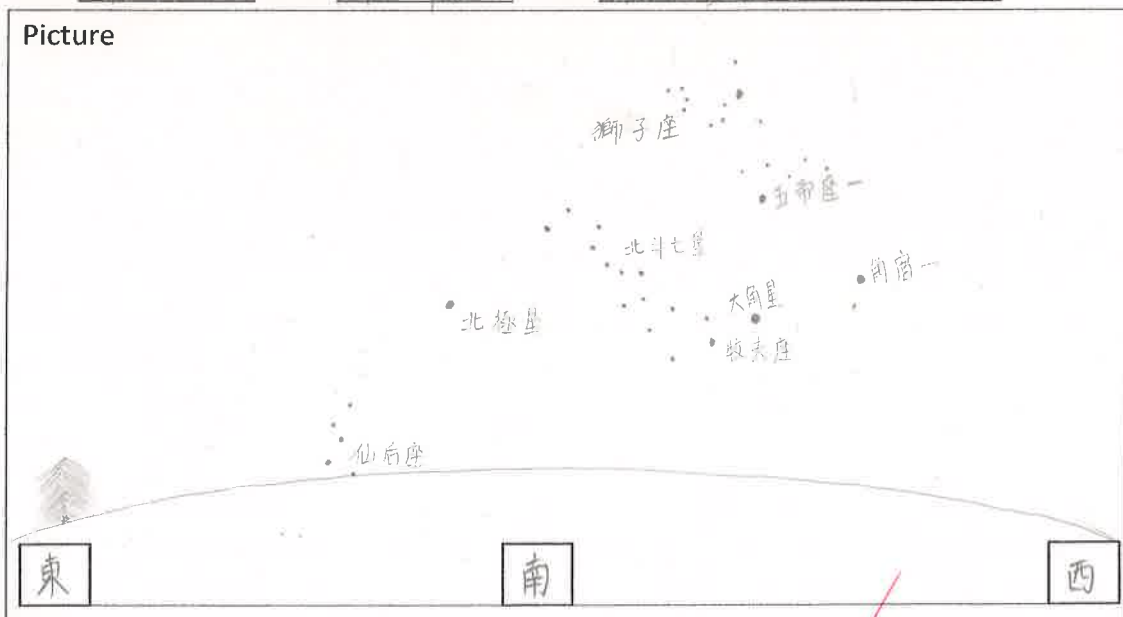
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. Azimuth : Data that know the direction of the stars.
2. Compass : Know the tools of North, East, South.
3. Star : A twinkling light in the sky at night.
4. Flashlight : Handheld light-emitting tool.
5. Astrological displays : Tools used to find the stars in the sky.
6. Height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9:00 p.m Place: 政大書小



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o] 折射式望遠鏡、反射式望遠鏡
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

A+

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角、方位角

2. What should we prepare for stargazing at night?

手電筒、外套、指北針、星座盤、防蚊液

3. In memory, where do you see the most stars?

墾丁旅館

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth: Data that know the direction of the stars.

2. compass: Know the tools of North, East, South.

3. star: A twinkling light in the sky at night.

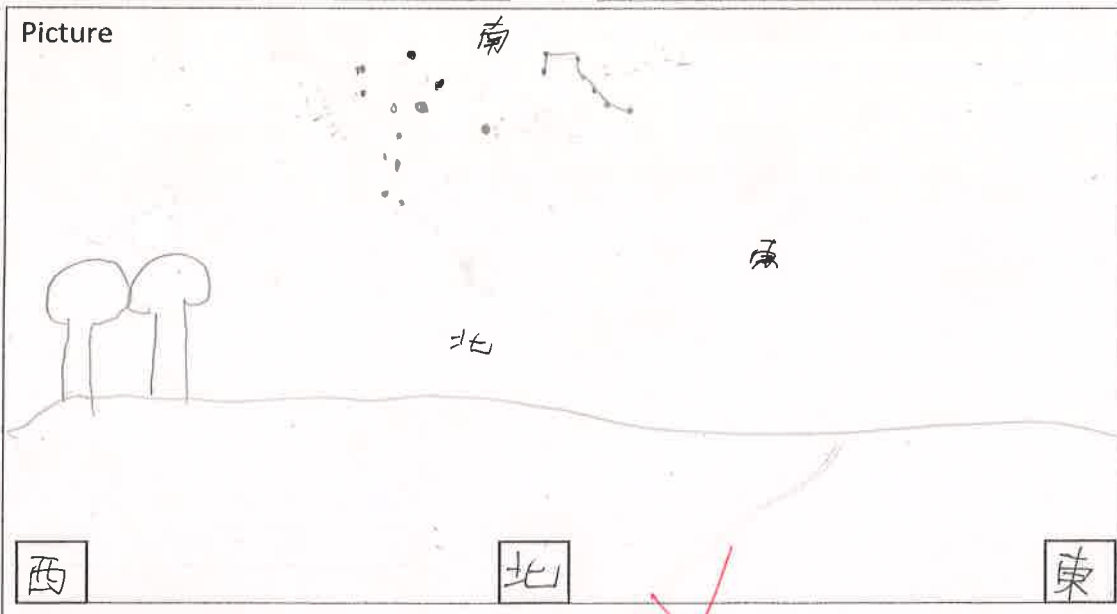
4. flash light: Handheld light-emitting tool.

5. Astrological Display: Tools used to find the stars in the sky.

6. height angle: Data that know the height of the stars.

Content: night stargazing record

Date: 11.3.23 Time: 9 Place: 公園



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

azimuth and height angle

2. What should we prepare for stargazing at night?

Coat, Flashlight, Astrological Displays, compass

3. In memory, where do you see the most stars?

阿羅山

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth ✓: Data that know the direction of the stars.

2. compass ✓: Know the tools of North, East, South.

3. star ✓: A twinkling light in the sky at night.

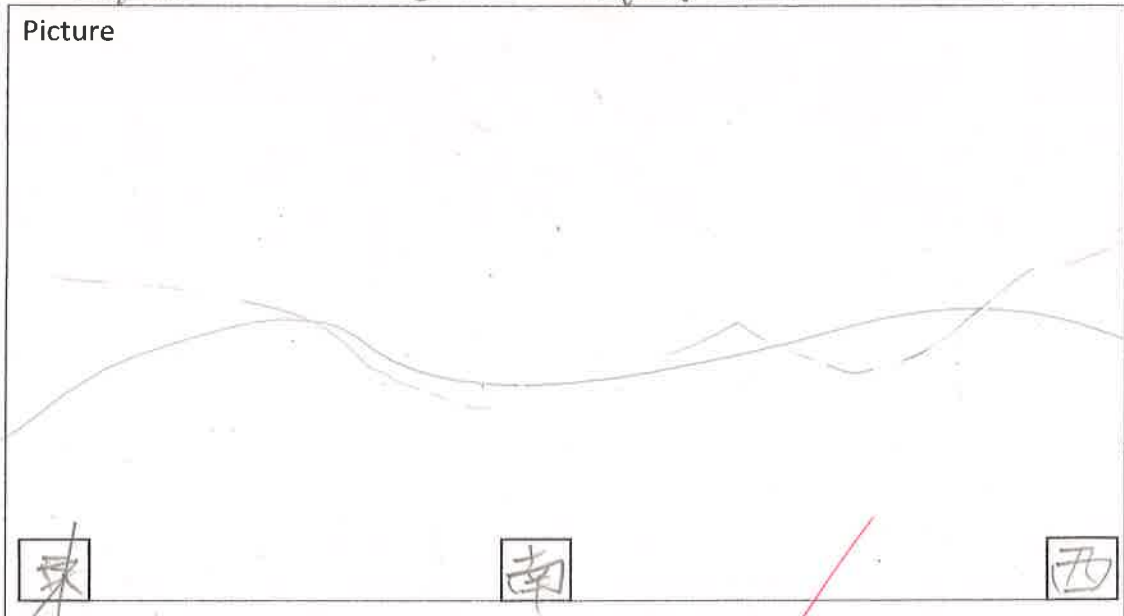
4. flashlight ✓: Handheld light-emitting tool.

5. Astrological Displays ✓: tools used to find the stars in the sky.

6. height angle ✓: Data that know the height of the stars.

Content: night stargazing record

Date: 3/20 Time: 8:00 Place: 蕙芳社區



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角, 方位

2. What should we prepare for stargazing at night?

星座盤, watch, flashlight, compass

3. In memory, where do you see the most stars?

陽明山

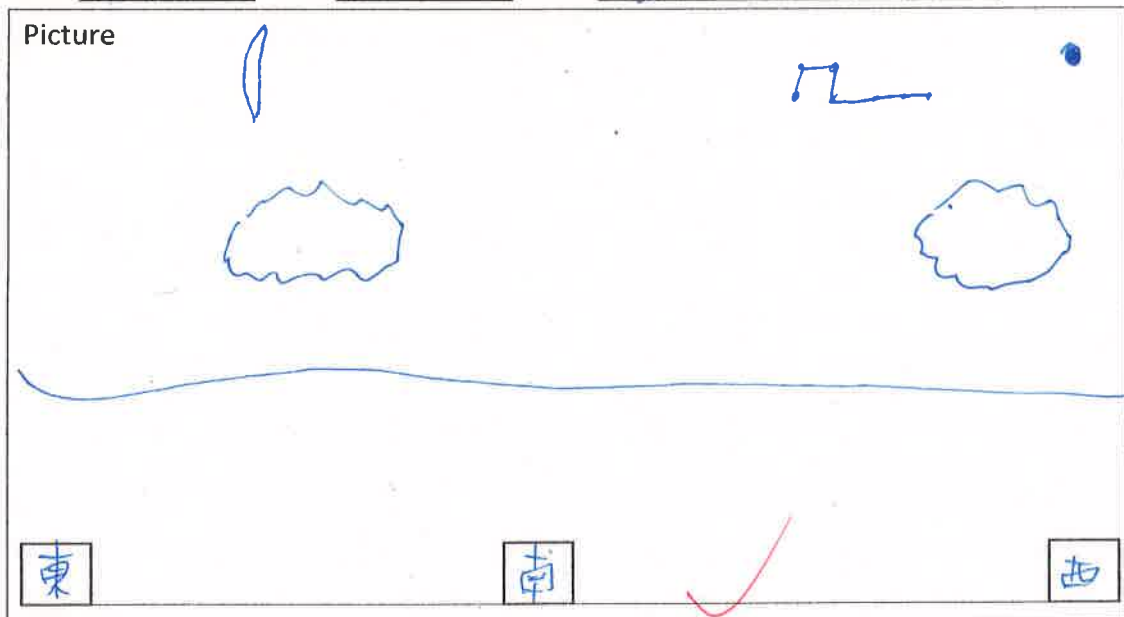
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.
2. compass : Know the tools of North, East, South.
3. star : A twinkling light in the sky at night.
4. flashlight : Handheld light-emitting tool.
5. Astrological Displays : Tools used to find the stars in the sky.
6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/17 Time: 7:20 Place: 家門口



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021 年 1 月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角、方位角

2. What should we prepare for stargazing at night?

flashlight, coat, watch, compass, Astrological Displays

3. In memory, where do you see the most stars?

貓空山上

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth: Data that know the direction of the stars.

2. Compass: Know the tools of North, East, South.

3. star: A twinkling light in the sky at night.

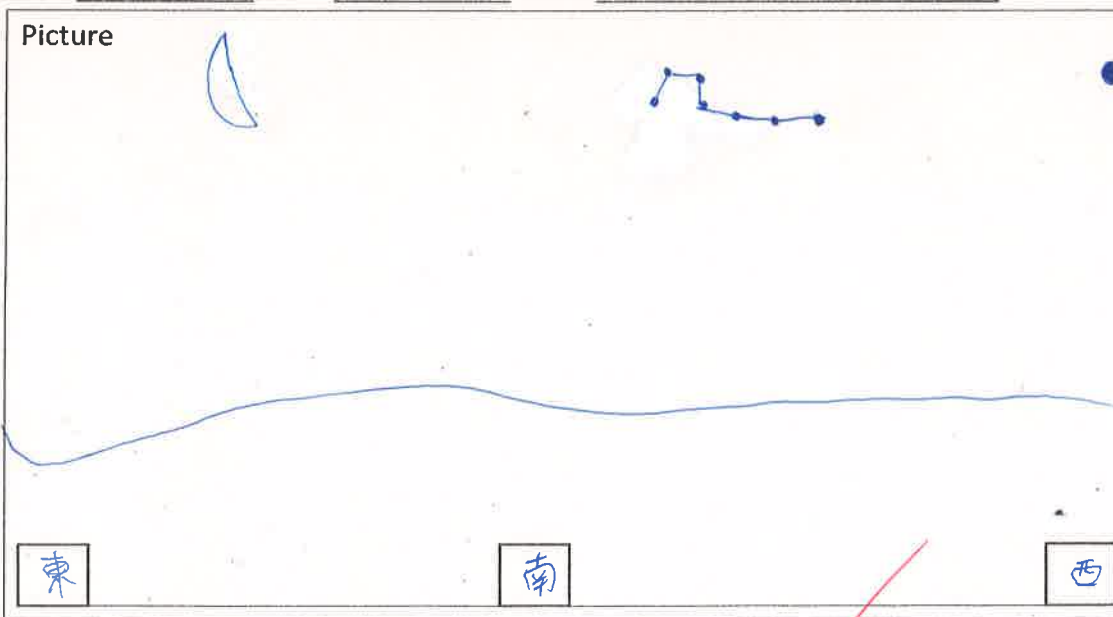
4. flashlight: Handheld light-emitting tool.

5. Astrological Displays: Tools used to find the stars in the sky.

6. height angle: Data that know the height of the stars.

Content: night stargazing record

Date: 3/17 Time: 7:00 Place: 家頂樓



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?
height angle and azimuth
2. What should we prepare for stargazing at night?
i phone · flashlight · watch
3. In memory, where do you see the most stars?
貓空山上

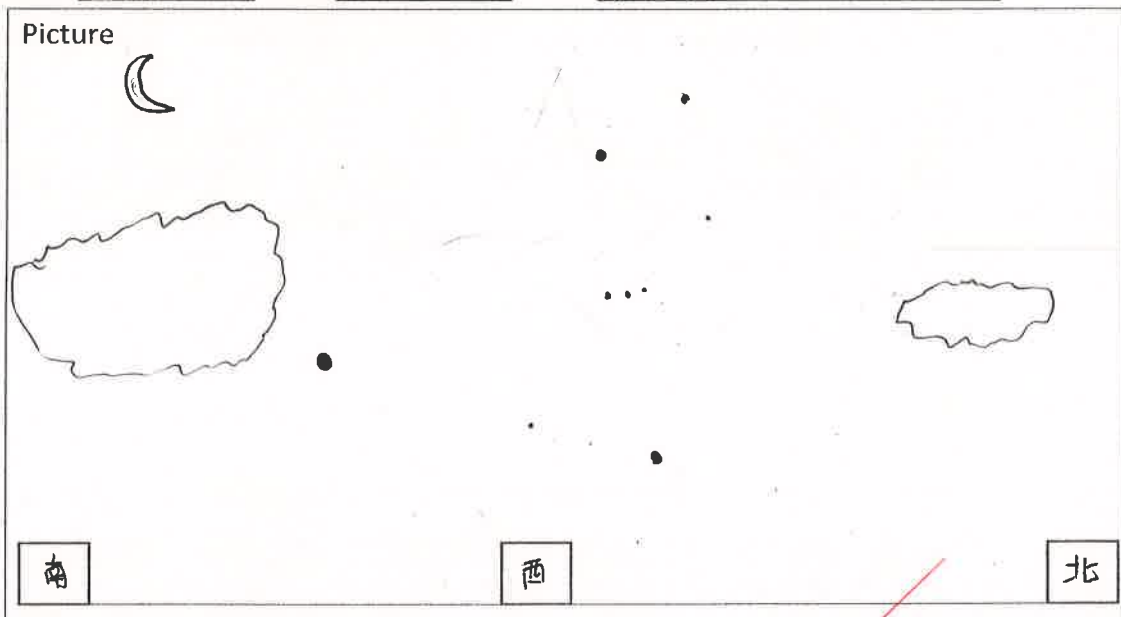
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.
2. compass : Know the tools of North, East, South.
3. star : A twinkling light in the sky at night.
4. flashlight : Handheld light-emitting tool.
5. Astrological Displays : Tools used to find the stars in the sky.
6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9:00 Place: 家門外



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]
2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

information = 訊息

prepare = 準備

stargazing = 凝視

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?
高度角、方位角 ✓
2. What should we prepare for stargazing at night?
3. In memory, where do you see the most stars?

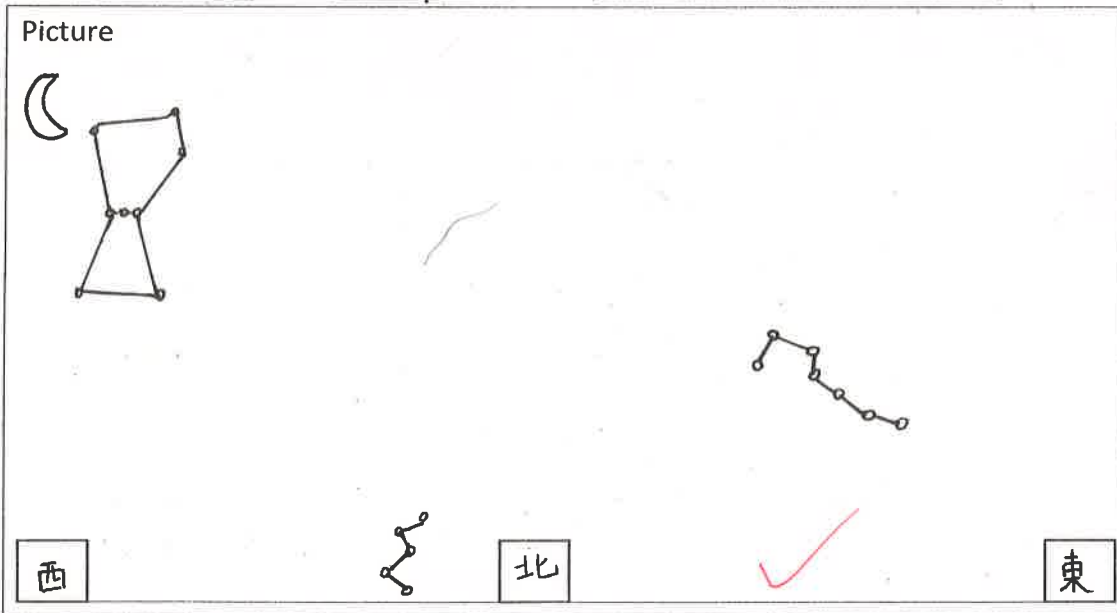
Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth ✓ : Data that know the direction of the stars.
2. compass ✓ : Know the tools of North, East, South.
3. star ✓ : A twinkling light in the sky at night.
4. flashlight ✓ : Handheld light-emitting tool.
5. Astrological ✓ : Tools used to find the stars in the sky.
6. height angle ✓ : Data that know the height of the stars.

Content: night stargazing record

Date: 3/4 Time: 9:00 p.m Place: 家外



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [<https://youtu.be/Tr093rXfc8o>]
2. 星象解說.2021年1月 [<https://youtu.be/fQXpDfw46PM>]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

2. What should we prepare for stargazing at night?
 高度角、方位角

星座盤、指北針、手電筒

3. In memory, where do you see the most stars?

山上

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. COMPASS : Data that know the direction of the stars.
2. azimuth : Know the tools of North, East, South.
3. star : A twinkling light in the sky at night.
4. flashlight : Handheld light-emitting tool.
5. Astrological Displays : Tools used to find the stars in the sky.
6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 3/24 Time: 9:00 Place: 我家的門口

Picture

北

天貓

北斗七星

西 北 東

Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

A+

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

高度角、方位角。

2. What should we prepare for stargazing at night?

Compass, flashlight, watch, Astrological Displays,

3. In memory, where do you see the most stars?

陽明山

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth : Data that know the direction of the stars.

2. compass : Know the tools of North, East, South.

3. star : A twinkling light in the sky at night.

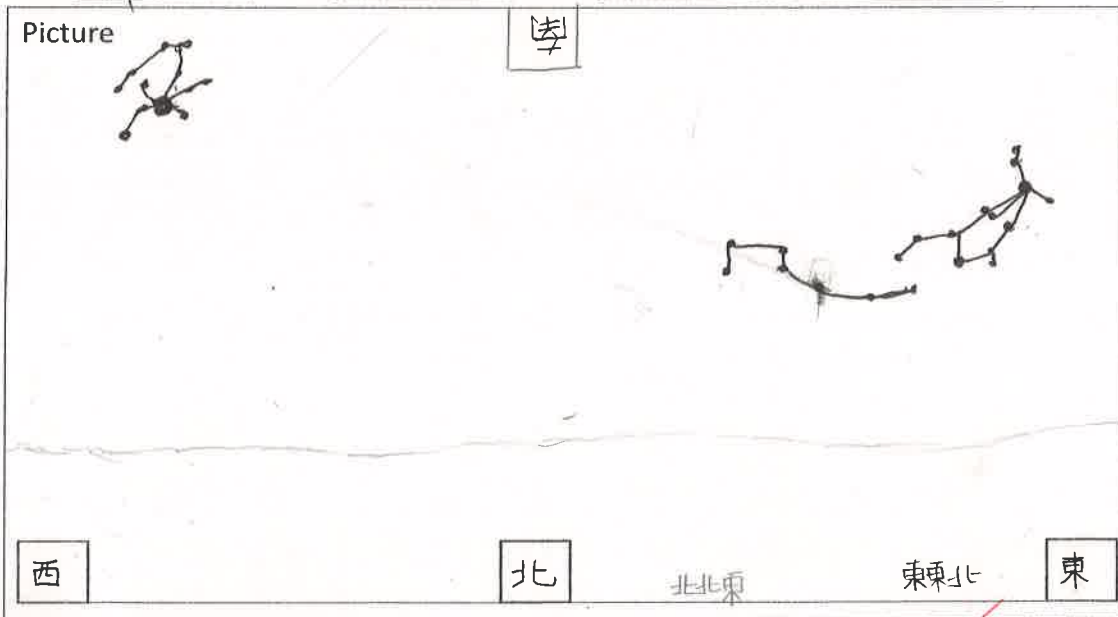
4. flashlight : Handheld light-emitting tool.

5. Astrological displays : Tools used to find the stars in the sky.

6. height angle : Data that know the height of the stars.

Content: night stargazing record

Date: 24 Time: 9:00 Place: 陽明山



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]

Unit 1 Beautiful starry sky - Observing the starry sky

Warmer

1. What information do we need to describe the position of a star in the sky?

height and azimuth ✓

2. What should we prepare for stargazing at night?

Iphone, snake, Astrological Displays, compass, coat ✓

3. In memory, where do you see the most stars?

墾丁 ✓

Concept

star (恆星)	Astrological Displays (星座盤)	height angle (高度角)
azimuth (方位角)	compass (指北針)	flashlight (手電筒)

1. azimuth ✓: Data that know the direction of the stars.

2. compass ✓: Know the tools of North, East, South.

3. star ✓: A twinkling light in the sky at night.

4. flashlight ✓: Handheld light-emitting tool.

5. Astrological Display ✓: Tools used to find the stars in the sky.

6. height angle ✓: Data that know the height of the stars.

Content: night stargazing record

Date: _____ Time: _____ Place: _____



Think: Let's watching the videos

1. 綻放真台灣：星空搜捕手 [https://youtu.be/Tr093rXfc8o]

2. 星象解說.2021年1月 [https://youtu.be/fQXpDfW46PM]