

火星儀製作紙 MARS GLOBE CONSTRUCTION SHEET

2

底座
Base

火星儀
MARS GLOBE



香港太空館
Hong Kong Space Museum



康樂及文化事務署
Leisure and Cultural
Services Department

與太陽平均距離：227,936,640公里 (地球的1.524倍)
Average distance from the Sun: 227,936,640 km (1.524 x Earth)
赤道半徑：3397公里 (地球的0.533)
Equatorial radius: 3397 km (0.533 x Earth)

質量：6.4185 x 10²³公斤 (地球的0.107)
Mass: 6.4185 x 10²³ kg (0.107 x Earth)
體積：1.6314 x 10¹¹立方公里 (地球的0.150)
Volume: 1.6314 x 10¹¹ km³ (0.150 x Earth)
赤道表面重力：3.693 米/秒² (地球：9.80米/秒²)
Equatorial surface gravity: 3.693 m/s² (Earth: 9.80 m/s²)

自轉週期：24.62小時 (地球：23.934小時)
Sidereal Rotation Period: 24.62 hours (Earth: 23.934 hours)
公轉週期：686.93地球日 (地球：365.24日)
Sidereal Orbit Period: 686.93 Earth days (Earth: 365.24 days)
自轉軸傾角：25.19° Equatorial Inclination to Orbit: 25.19°

製作步驟

1. 預備一枝20厘米長的竹籤和兩枝飲筒 (以250毫升紙包飲品的飲筒大小為合)。
2. 撕下地圖、3個底座和半圓尺。
3. 將其中1枝飲筒剪成11.5厘米長。另1枝則剪下兩小段，每段長1.4厘米。
4. 在距離竹籤其中一端5厘米處畫上記號，然後把地圖的南極點依數字順序穿在竹籤上至記號處(沒有數字的穿在最後)。
5. 將地圖的赤道兩端互相扣好，把11.5厘米長的飲筒套進竹籤，然後把北極點依英文字母順序穿在竹籤的另一端上至飲筒處。
6. 將1.4厘米長的飲筒放在半圓尺背面的兩端，然後把半圓尺沿飲筒對摺及用膠水黏好，最後依圖示把火星儀底座A、B和C摺好，以及把火星模型和半圓尺插在底座上。

Procedure

1. Get a 20cm long bamboo stick and two straws (those of the 250ml paper-packed drinks work better).
2. Tear out the Map, 3 Bases and the Semi-meridian.
3. Cut one straw into 11.5cm long. For the other straw, cut out two short sections each being 1.4cm in length.
4. Make a mark on the bamboo stick at a point 5cm from one end. Holding the stick, carefully bring down the south polar ends over the stick to the mark in numerical order (the end without number being at the top).
5. Clip the two equatorial ends of the Mars Globe. Slip the 11.5cm long straw over the stick and bring down the north polar ends to the straw in alphabetical order.
6. Put the two 1.4cm long straws on the opposite ends at the back of the Semi-meridian. Fold the Semi-meridian round the straws and glue the two half Semi-meridian together. Lastly, assemble the 3 Bases following the instructions and insert the Mars Globe into the Base.

A

C

B