

Astronomer



Complete the following:

1. Describe the following concepts of observational astronomy:
 - a. Chinese and Western constellations;
 - b. Motions and observational characteristics of the Sun, the Moon, stars and planets on the celestial sphere; and
 - c. Change of seasons.
2. Tell the reasons, characteristics, and observe methods of the following astronomical events: moon phase, solar eclipse, lunar eclipse, meteor, and meteor shower.
3. Have a general knowledge of major members in the Solar System.
4. Briefly describe the structure of the Universe.
5. Describe stargazing manners and effects of light pollution on stargazing; list out stargazing locations in Hong Kong.
6. Demonstrate one of the safe ways to observe the Sun.
7. Tell the functions and explain the principles of astronomical telescopes.
8. Participate an outdoor stargazing activity in evening. Use a rotary star map to identify at least three constellations during the activity; be able to tell direction by constellations.
9. Participate an activity of special astronomical event observation; or conduct an observing project on studying moon phase, or other targets similar in nature, for more than one month regularly.