

# STARS IN YOUR EYES

1. What direction does the sun rise?
2. Where is the sun at noon?
3. What direction does the sun set?
4. When you face north, the Sun and the stars appear to move from ..... to .....
5. How many stars are there in the Solar System?
6. Name some of the planets in the Solar System?
7. Name a bright object that over several days changes its shape in the sky?
8. What is a constellation?
9. Name some of the constellations in the Southern Sky?
10. What is the name of an object that moves across the sky in minutes?
11. What is the name of the band of white light that stretches across the sky?
12. What is the name of the location where the sky and the land or sea appear to meet?
13. The direction of straight up is called .....?
14. What is the difference between a star and a planet?
15. How many planets have life on them?
16. From the furthest planet in our Solar System, what would the sun look like?
17. In space what colour is the sky?
18. What is a stone entering our atmosphere called?
19. Is there any air between the planets?
20. What do Jupiter, Saturn, Uranus and Neptune have in common?

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## ANSWER SHEET

1. The Sun rises in an easterly direction. (The sun only rises in the east and sets in the west twice a year at equinox, March 21 and September 21)
2. At noon by the clock (12 midday) the sun will be high in the sky. It will not be directly overhead. This is especially so during Daylight Savings when the clocks are advanced an hour.
3. The sun sets in a westerly direction.
4. East to West.
5. One, the Sun.
6. Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune. Pluto is now a dwarf planet
7. The Moon.
8. A pattern of stars in the sky that make a picture. For many constellations, a good imagination is needed.
9. Southern Cross (Crux), Centaurus, Carina, Grus.
10. A satellite.
11. The Milky Way
12. Horizon
13. Zenith
14. Stars provide their own light and heat through a controlled "nuclear reaction" happening at the centre of the star, a planet has no natural light or heat. At night time stars twinkle, planets do not.
15. Only one, the Earth.
16. A very bright star that would give no light, heat or energy.
17. Black.
18. Meteor. If it lands it is a meteorite.
19. No. There is a vacuum.
20. They are all gas giants and they all have a ring system.