Quiz for Teachers *(Try it on your colleagues)*

1. How many zeroes are there in
   (a) a million
   (b) a billion?

2. Is the age of the universe best reckoned in millions or billions of years?

3. Sun / planets / stars / galaxies:
   (a) Which of these seem to go round the Earth each day?
   (b) Which of these in fact go round the Earth?
   (c) Does the Earth go round any of them?

4. Think about stars and planets. Is the difference between stars and planets mostly a matter of size, distance from us,temperature, age, composition, brightness?

5. What makes stars shine?

6. What do you think:
   (a) Is the Sun a star?
   (b) Is the Moon a satellite?
   (c) Is the Earth a planet?
   (d) Is the Milky Way a galaxy?

7. The patterns of stars in the sky (i.e. the constellations) were seen and named thousands of years ago and yet are still recognized today. Does this mean that these stars are static, or what?

8. Why is it impossible to breathe:
   (a) on the Moon?
   (b) on Mars?

9. The solar system has a number of planets in orbits around the Sun.
   (a) What kind of force is needed to hold the planets in these orbits?
   (b) What kind of force is needed to keep them moving?

10. What sort of thing is a light-year?

11. There are plans for people to land on and explore Mars. The Sun is only a few times further away but no such plans exist to ever go there. Why not?

12. Nonetheless we know in some detail what the Sun is made of. How do we know this?

13. What kind of thing is a:
    (a) black hole
    (b) Big Bang
    (c) radio telescope
    (d) red giant
    (e) white dwarf?

Getting the most from your visit

We have a fund of experience with school groups of all types and ages. Nonetheless we can adapt the visit to suit your needs and those of your group, provided that these are made known well in advance. Then particular topics can be dealt with at the appropriate stage of the visit: lecture, telescope or planetarium presentation. For leaders unfamiliar with the Observatory, a visit beforehand can be arranged.

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