

Name:

“CPR” Quiz #1 - Day/Night Cycles

Attempt Description	Colour Highlighter or Pen	What does this tell you?
1st - Just your brain		What you already have in your long-term memory.
2nd - Just your notes/resources		What you understand, but not in your long-term memory.
3rd - With support from classmates or teacher		What you don't understand.

When it comes to studying effectively, make sure you start with the material that was the 3rd attempt colour because that is what needs the most work.

*This question was created by Ms Garlick.*

This report is about how interactions between the Sun and the Earth-Moon system affect Earth. Use specific evidence from the resources and your own knowledge to answer all parts of the report.

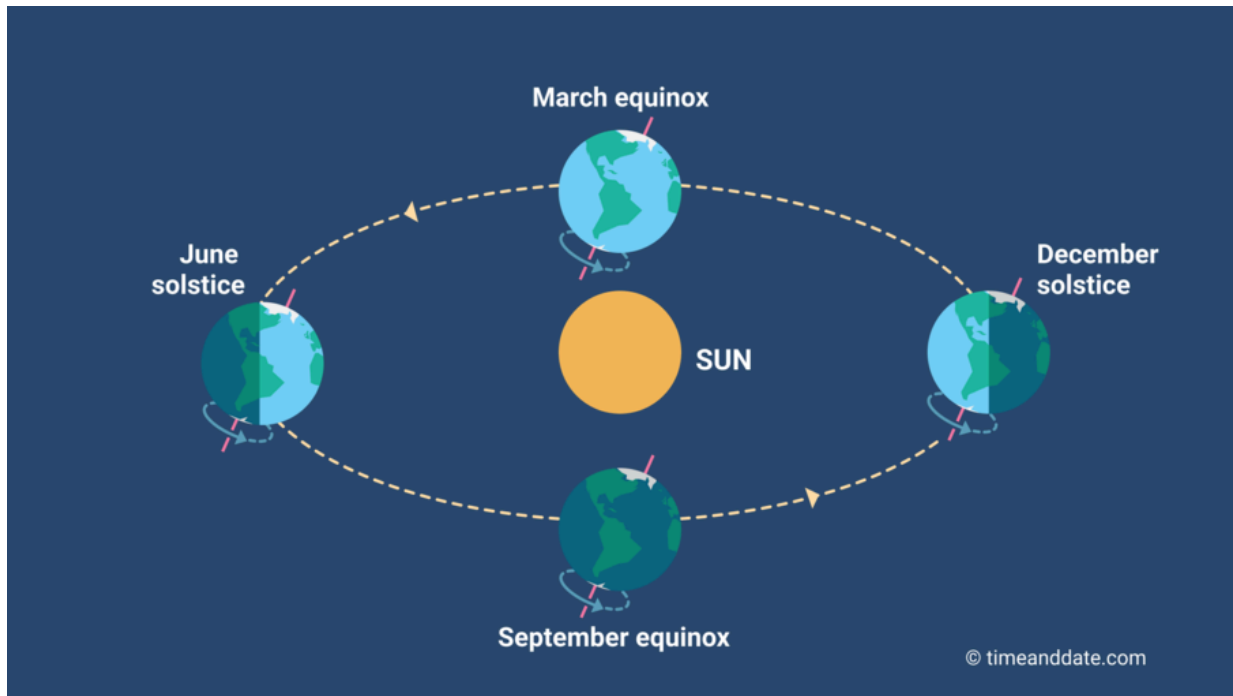
DAY NIGHT CYCLES

This year Aotearoa/New Zealand experienced the shortest day (winter solstice) on Earth on Friday, June 21st, which in terms of daylight was around 9 hours long. The longest day (summer solstice) will be on Saturday, December 21st, which in terms of daylight hours will be around 16 hours.

In the United Kingdom, the longest day was around 16 hours, which occurred on Thursday, June 20th. The shortest day will be on Saturday, December 21st which will be around 9 hours.

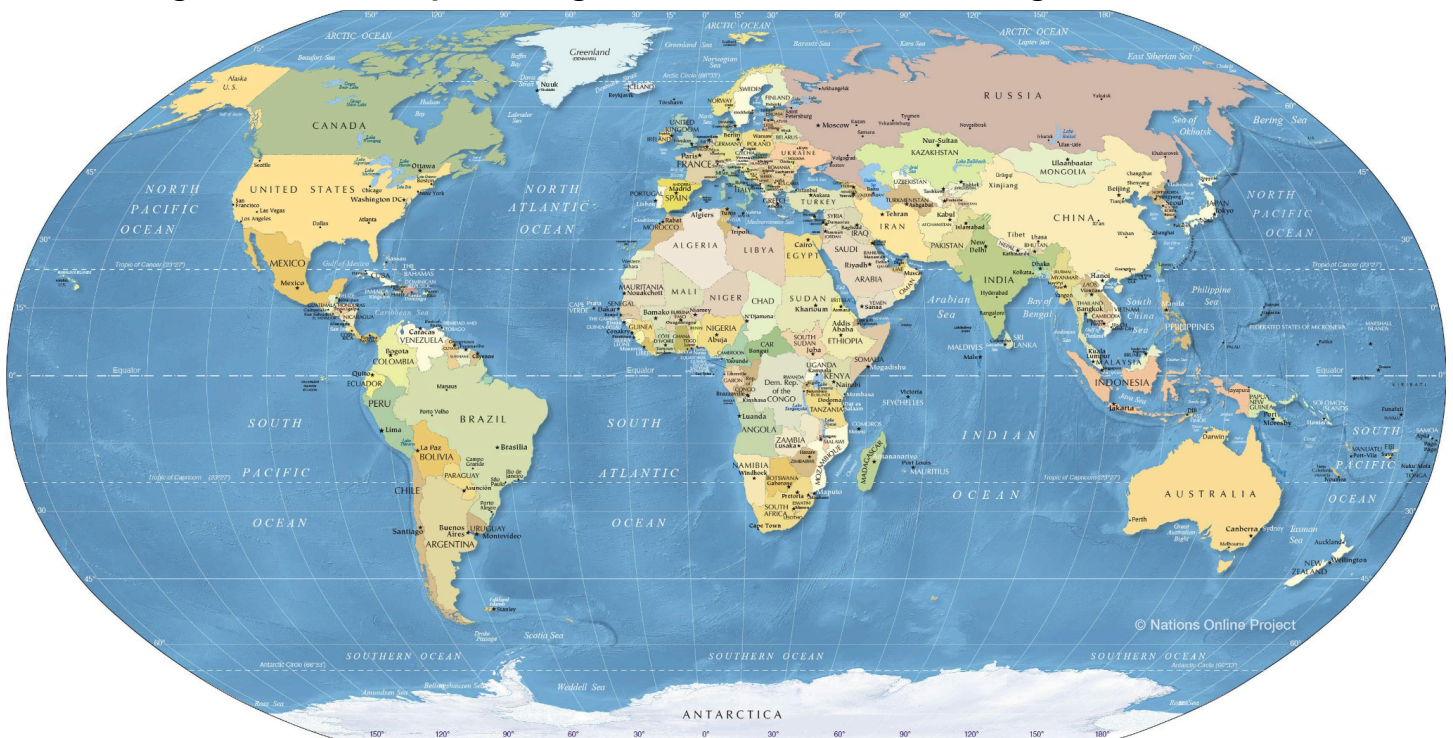
In Utqiagvik, Alaska, USA they have 83 days with 24 hours of sunlight, which started on Thursday 20th and didn't set until August 2nd. They will also have 65 days of night, starting mid-November and going until after the New Year (2025).

Figure 1: The Earth's Orbit



<https://www.timeanddate.com/calendar/aboutseasons.html>

**Figure 2: World map showing New Zealand, the United Kingdom and Alaska.**



<https://www.nationsonline.org/maps/Political-World-Map-3360.jpg>

Discuss the different day lengths experienced in Aotearoa/New Zealand, the United Kingdom, and Utqiagvik. In your answer, should explain.

- ☐ How day and night occurs.
- ☐ Explain where the Sun rises and sets.

Created by Keri Tan Garlick 2024

- ☐ Why do Aotearoa New Zealand and the United Kingdom experience their longest and shortest days during opposite ends of the year?
- ☐ Why does Utqiagvik experience days with only daylight (no nights) and days with no daylight (only nights)?

[Delete and start writing your answer.]