MockAssessment\_QuantifyingTheWorldInData

*The ASUS Vivobook Pro 15 OLED* is a powerful laptop designed for creators and professionals. It features a stunning 15.6-inch OLED display with vibrant colors, deep blacks, and high contrast, making it ideal for content creation, media consumption, and gaming. Powered by high-performance AMD Ryzen or Intel processors and NVIDIA GeForce graphics, it handles demanding tasks with ease. The laptop offers up to 16GB of RAM and fast SSD storage, ensuring smooth multitasking and quick load times. Its slim, lightweight design, backlit keyboard, and long battery life make it perfect for productivity on the go.

Display:

15.6-inch OLED panel

Resolution: 2880x1620 (2.8K)

Brightness: up to 600 nits

Color accuracy: 100% DCI-P3 color gamut

Processor (CPU):

Options: Intel® Core™ Ultra 9 processor 185H 2.3GHz (24MB cache, tot 5.1GHz, 16 cores, 22 threads); Intel® AI Boost NPU

Graphics (GPU):

NVIDIA® GeForce RTX™ 4060 Laptop GPU (233 AI TOPs)  
8GB GDDR6  
Intel® Arc™ Graphics

Storage:

8GB DDR5 on board  
16GB DDR5 SO-DIMM  
Max Total system memory up to:24GB

1TB M.2 NVMe™ PCIe® 4.0 SSD

Battery:

75WHrs, 4S1P, 4-cell Li-ion

Weight and Dimensions:

35.57 x 23.53 x 1.99 ~ 1.99 cm (14.00" x 9.26" x 0.78" ~ 0.78")

Weight: 1.80 kg

*Ball lightning* is a rare and mysterious atmospheric phenomenon where glowing, spherical objects, typically ranging from the size of a golf ball to a grapefruit, appear during thunderstorms. These glowing orbs are often described as floating or moving erratically through the air, lasting anywhere from a few seconds to several minutes before disappearing, sometimes with a loud explosion or a quiet fade. Despite centuries of sightings and various scientific theories, the exact cause of ball lightning remains unexplained. Hypotheses range from electrically charged plasma to oxidized silicon, but no definitive explanation has been confirmed through experiments or observations.

**Size**:

* Diameter: Ranges from 10 cm (~4 inches) to 40 cm (~16 inches), though sizes up to 1 meter (~3 feet) have been reported.

**Duration**:

* Typically lasts between 1 and 10 seconds, though reports have indicated up to several minutes in rare cases.

**Brightness**:

* Comparable to a 100-watt lightbulb or up to the brightness of the Sun, according to witness accounts.

**Colour**:

* Commonly reported colours include white, yellow, orange, and blue.

**Occurrence**:

* Estimated frequency is 1-5 incidents per 1,000 thunderstorms.

**Temperature**:

* Some theories suggest ball lightning could reach temperatures of 1,000 to 3,000 degrees Celsius (1,832 to 5,432 degrees Fahrenheit), but this remains speculative.

This phenomenon has not been consistently captured in controlled scientific studies

\* How does the size and duration of ball lightning correlate with its brightness and temperature during thunderstorms?