

## **Additional materials**

**Author/  
Authors:** **Przemysław Rudź**

## **Astronomical Instruments**

**Topic:** **Astronomical observations, optical aberrations,  
operating an amateur telescope.**

**Students' age:** **15-19**

**Time:** ⌚ **4 lessons**

---

## Kahoot Quiz

*✍ The correct answers are in bold*

1. Where is the construction of the Extremely Large Telescope located?
  - a) Atacama Desert.**
  - b) Sahara Desert.
  - c) Kalahari Desert.
2. Why are increasingly larger telescopes being built?
  - a) To compensate for light pollution.
  - b) To increase the light collecting area from distant objects.**
  - c) To neutralize the unfavorable impact of the Earth's atmosphere.
3. What is the planned diameter of the Extremely Large Telescope?
  - a) 80 meters.
  - b) 27 meters.
  - c) 39 meters.**
4. What were the first construction works associated with building ELT?
  - a) A competition regarding the new telescope's location has been launched.
  - b) A big forest area on top of the mountain has been cut down.
  - c) The top of the Cerro Armazones mountain has been flattened with the use of explosive materials.**
5. What is special about the location of the new telescope (more than one answer is correct)?
  - a) The location is easily accessible for heavy machinery.
  - b) Atacama Desert is one of the optimal locations for conducting astronomical observations.**
  - c) The Very Large Telescope observatory on Cerro Paranal mountain, with which ELT will be linked, is located nearby.**
  - d) The sky is clear during the majority of the year.**
6. What will the ELT be characterized by? (more than one answer is correct)?
  - a) A range far exceeding that of telescopes built so far.**
  - b) A resolving power that is much higher than that of a telescope built so far.**
  - c) By the main mirror consisting of several hundred smaller elements.**
  - d) An optical path composed of as many as five mirrors.**
7. Which device linked with the telescope allows to examine the chemical composition of distant objects?
  - a) Computer controlled telescope.
  - b) Spectrograph.**
  - c) Telescope vibration absorbing system.

- 
8. What is the name of the organization associating several countries interested in the construction and scientific usage of the largest and state-of-the-art astronomical instruments?
- a) National Aeronautics and Space Administration.
  - b) European Southern Observatory.**
  - c) European Space Agency.



---

*Educational material prepared as part of  
the FUTURE SPACE project (grant no.  
2019-1-PL01-KA201-065434), co-financed  
by the European Union in the ERASMUS+  
programme*



**LICENCE: CC BY-SA 4.0**

<https://futurespaceproject.eu/>

