

Task 3. ID: 2315



Transfer the Data

Place: **Earth**

Time: **4 years before Mission - 1 launching**

Data relay is an essential part of Mars exploration.

Commands are sent to rovers and landers on Mars surface via orbiting spacecrafts (artificial satellites) and in turn, scientific data collected by the surface missions is sent back to Earth through the orbiters.

You are the scientists at the Space Communications and Navigation Department.

Your goal is to transmit data from Mars to Earth, while Mars, Sun and Earth are placed in a straight line.

Try to transmit the optical signal from Mars (on the one side of the table) to Earth (on the other side) using the mirrors as transmitters. Each planet can have up to two transmitter satellites.

Using the app, fill in the sectors you placed transmitters on each planet.

NOESIS

SOS: Planets' sizes and distances are not to scale

