Legends of Learning

Structure of Our Solar System

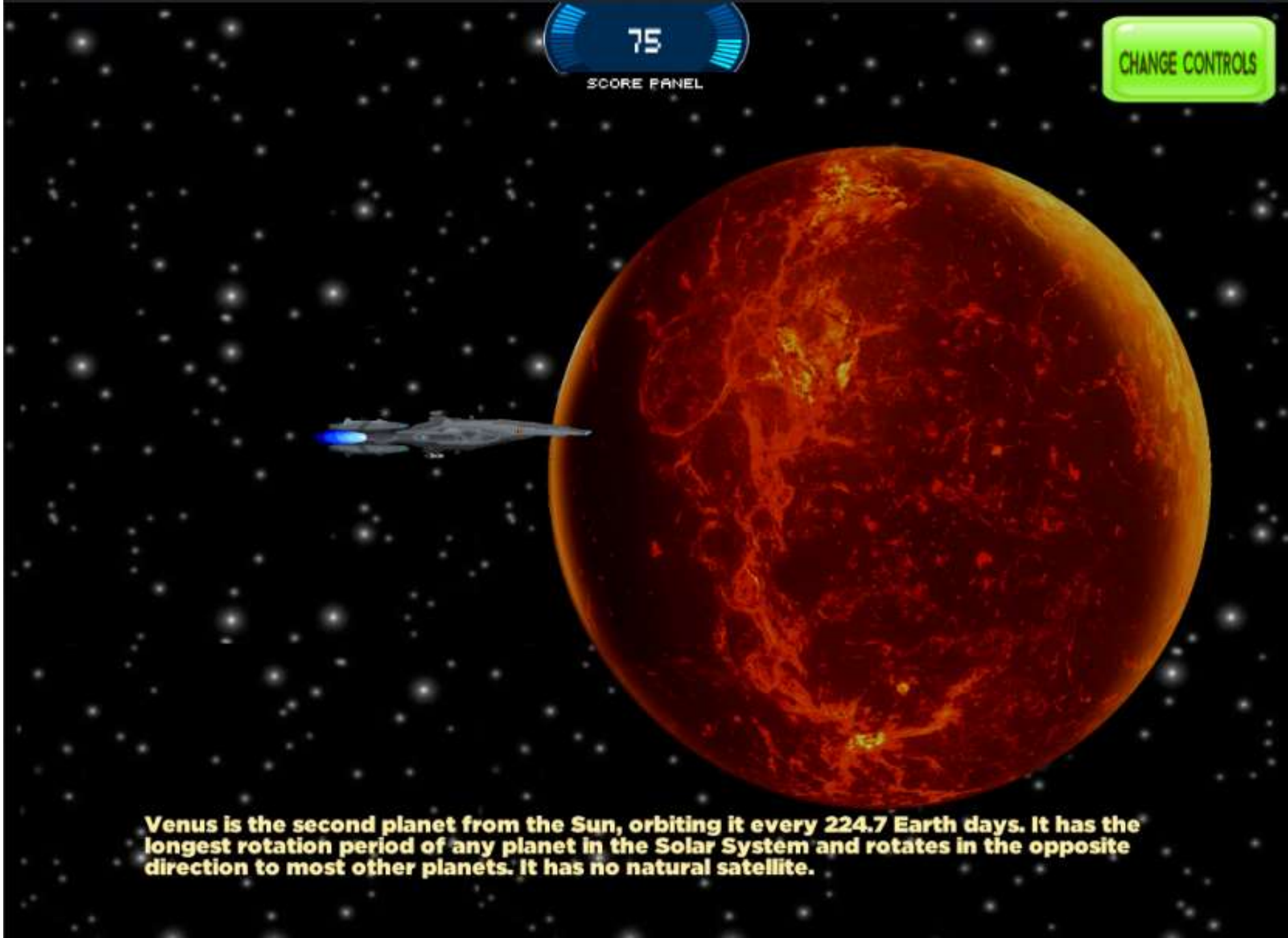
#1


68
SCORE PANEL
CHANGE CONTROLS
The Sun is the star at the center of the Solar System. It is a nearly perfect sphere of hot plasma. It is by far the most important source of energy for life on Earth. Its diameter is about 109 times that of Earth, and its mass is about 330,000 times that of Earth.

#2


95
SCORE PANEL
CHANGE CONTROLS
Mercury is the smallest and innermost planet in the Solar System. Its orbital period around the Sun of 88 days is the shortest of all the planets in the Solar System.

#3


75
SCORE PANEL
CHANGE CONTROLS
Venus is the second planet from the Sun, orbiting it every 224.7 Earth days. It has the longest rotation period of any planet in the Solar System and rotates in the opposite direction to most other planets. It has no natural satellite.

#4


67
SCORE PANEL
CHANGE CONTROLS
Earth, otherwise known as our world, is the third planet from the Sun and the only object in the Universe known to harbor life. It is the densest planet in the Solar System and the largest of the four terrestrial planets.

#5


104
SCORE PANEL
CHANGE CONTROLS
Mars is the fourth planet from the Sun and the second-smallest planet in the Solar System, after Mercury.

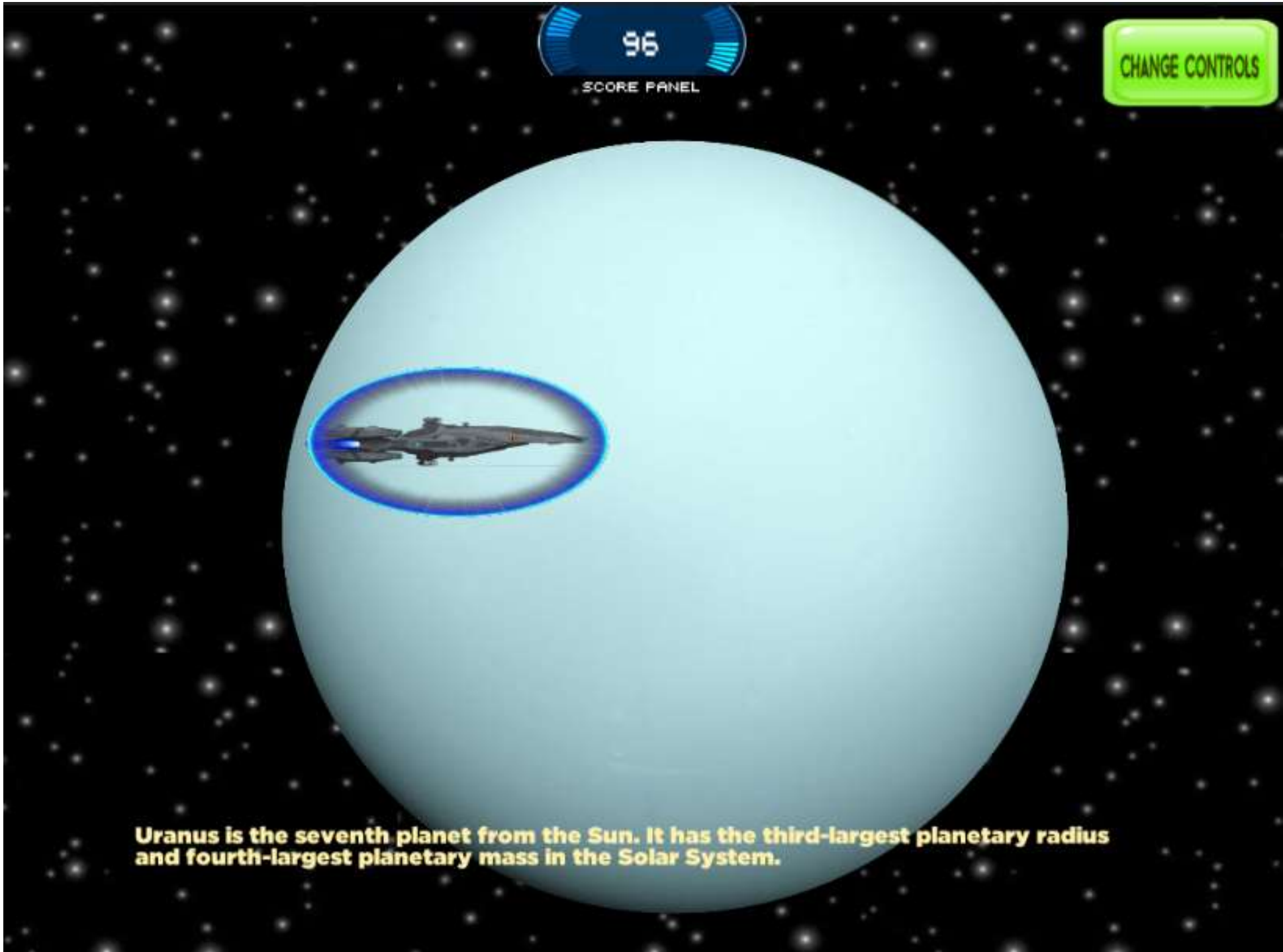
#6


96
SCORE PANEL
CHANGE CONTROLS
Jupiter is the fifth planet from the Sun and the largest in the Solar System. It is a giant planet with a mass one-thousandth that of the Sun, but two and a half times that of all the other planets in the Solar System

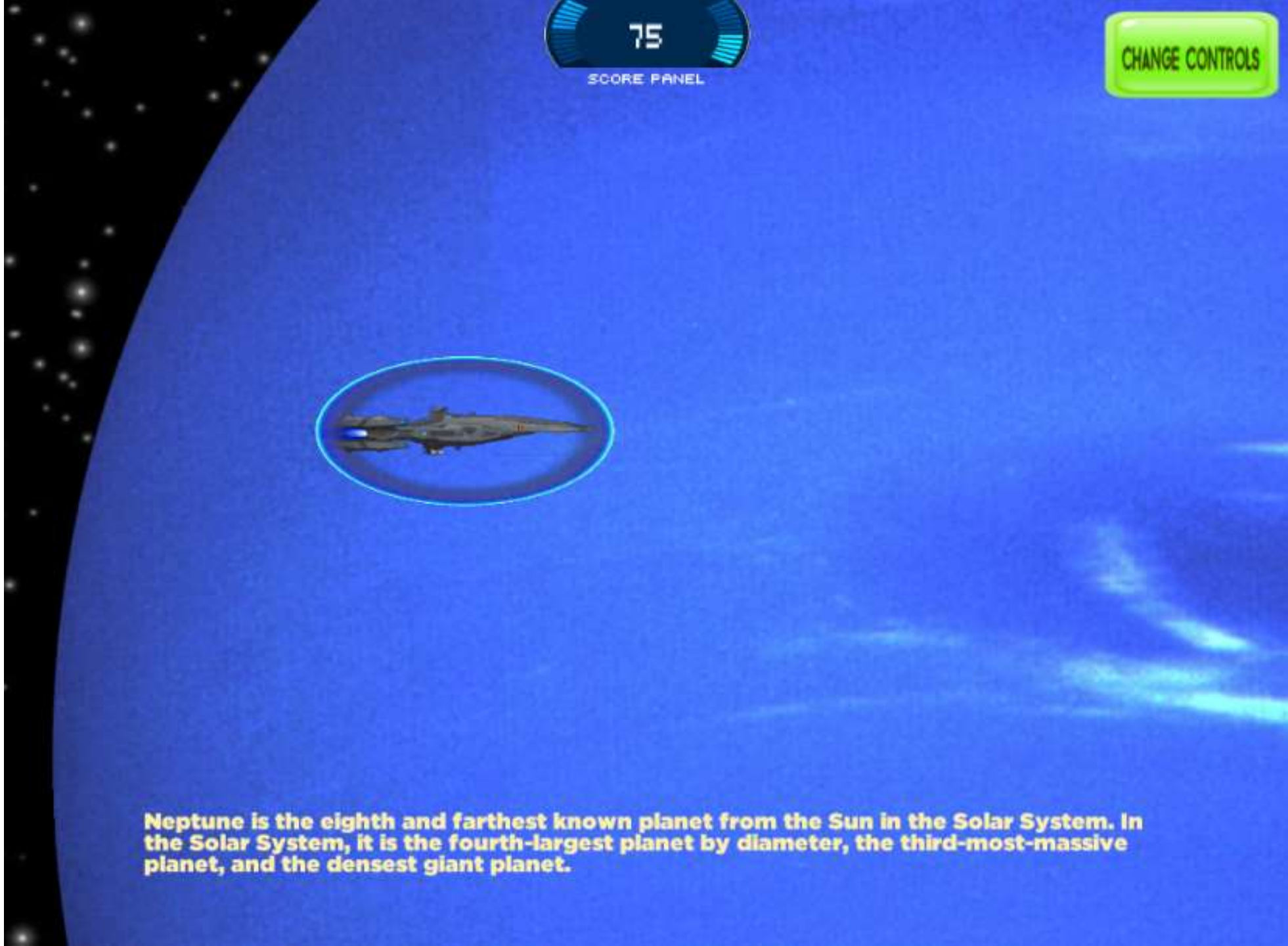
#7


83
SCORE PANEL
CHANGE CONTROLS
Saturn is the sixth planet from the Sun and the second-largest in the Solar System,
after Jupiter. It is a gas giant with an average radius about nine times that of Earth.

#8

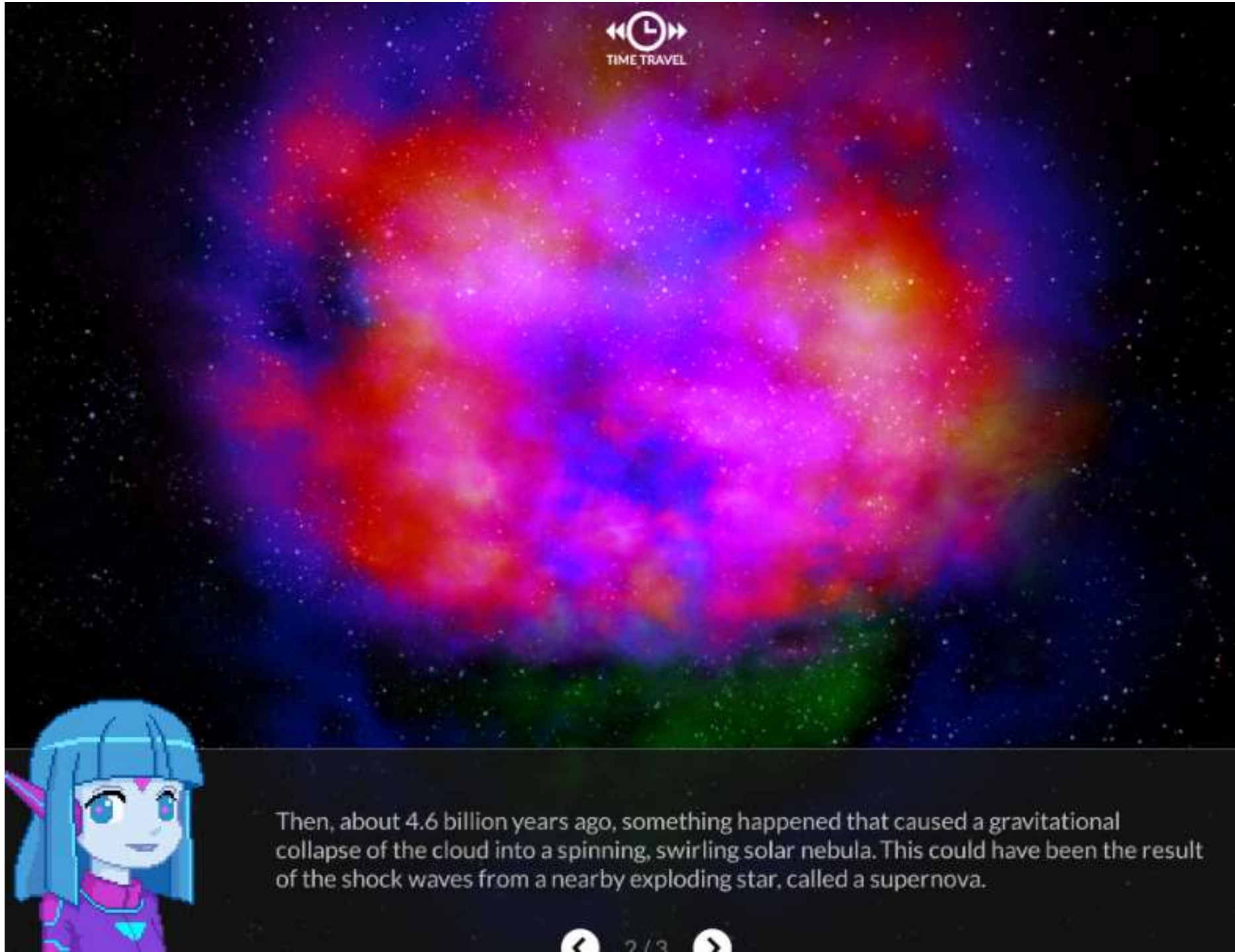

96
SCORE PANEL
CHANGE CONTROLS
Uranus is the seventh planet from the Sun. It has the third-largest planetary radius and fourth-largest planetary mass in the Solar System.

#9

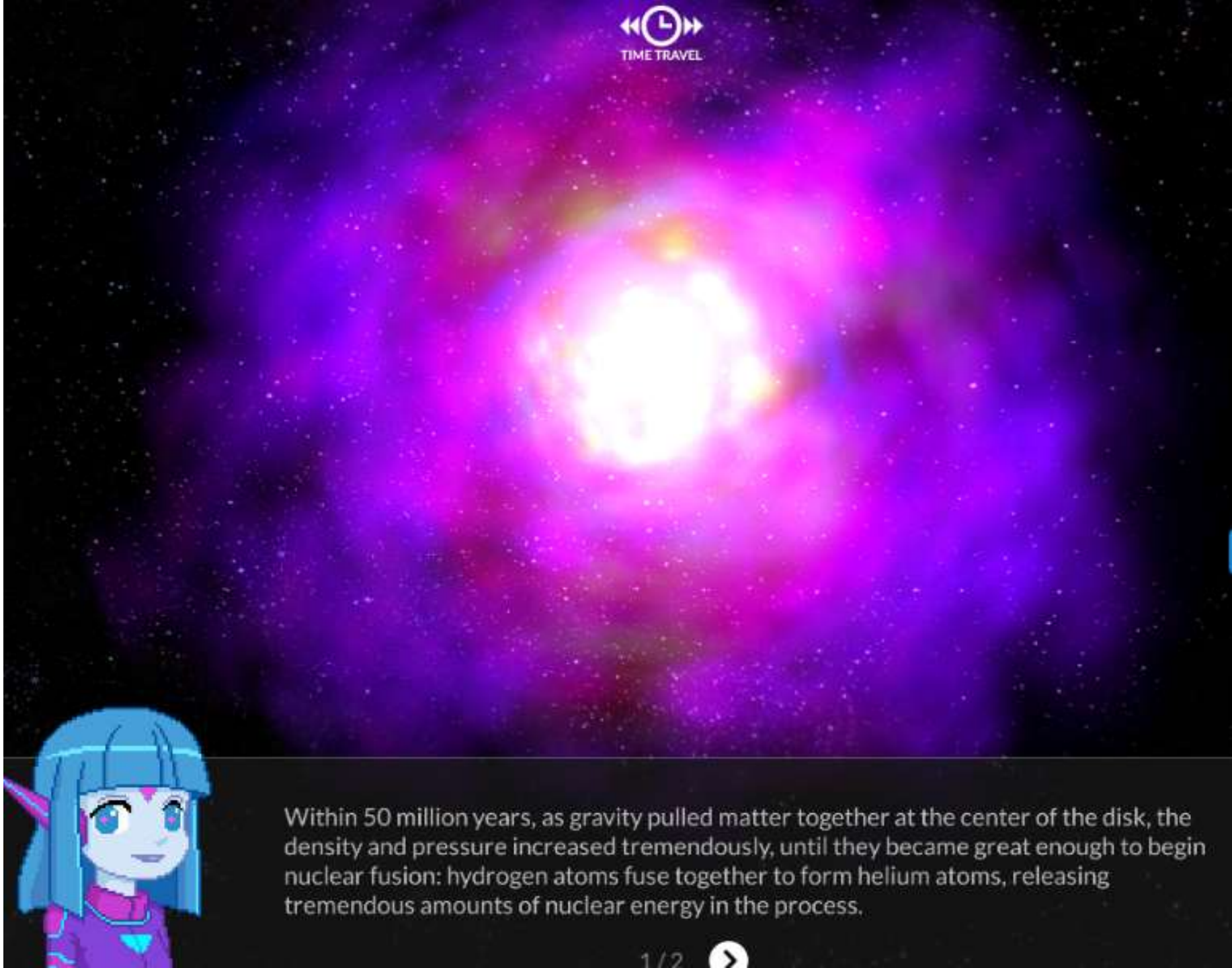

75
SCORE PANEL
CHANGE CONTROLS
Neptune is the eighth and farthest known planet from the Sun in the Solar System. In the Solar System, it is the fourth-largest planet by diameter, the third-most-massive planet, and the densest giant planet.

Nebular Theory

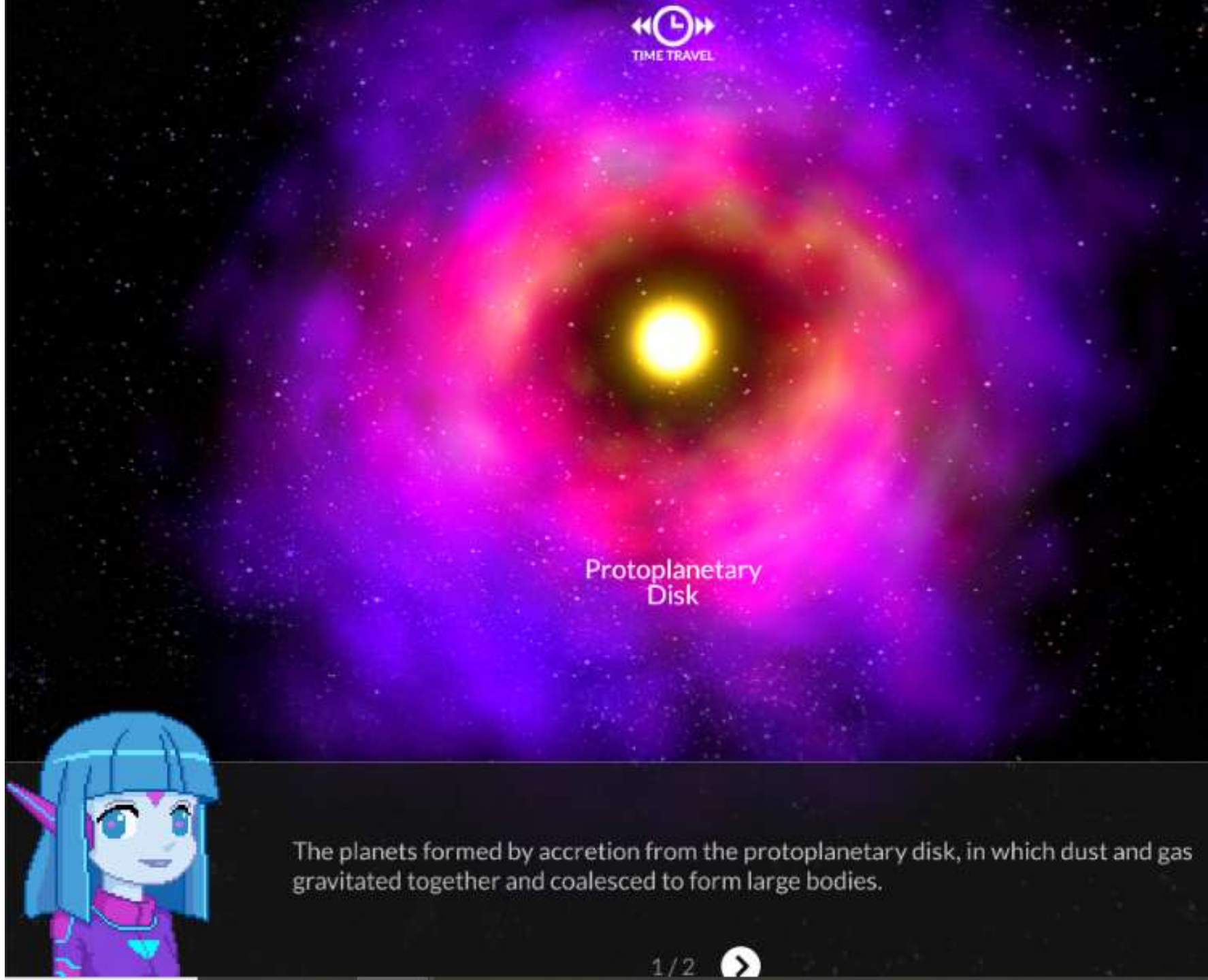
- Solar Nebular
  - **Gravitational** collapse caused the cloud to spin.



- Formation of the Sun
  - Gravity pulled matter together at the center of the disk. Making it hot enough for nuclear fusion of hydrogen to helium.



- Accretion of Planets
  - Dust and gas gravitated together and formed large bodies, forming the planets.



- Death of a Star/Sun
  - After the Red Giant the core will remain and cool to form a white dwarf star.