WELCOME to the SAASTA **AstroQuiz 2016 ROUND 2**





RULES

- You only have 60 seconds to answer the questions.
- You are allowed to discuss amongst yourselves.
- Calculators may be used if needed.
- No internet is to be used, therefore the use of cellphones is also prohibited.
- The judge's decision is final.





Which of the following simply describes the term "umbra"?

- A. The Earth
- B. The Moon
- C. Shadow
- D. Eclipse





Unlike a solar eclipse which can only be viewed from a certain relatively small area of the Earth, a lunar eclipse may be viewed from anywhere on the night side of the Earth.

- A. True
- B. False





A lunar eclipse occurs during the day whilst a solar eclipse occurs only at night.

A. True

B. False





The Sun and Sirius A are yellow and white main sequence stars respectively. Which of the following is true?

- A. Sirius has a greater absolute magnitude value than the Sun
- B. Sirius has a lower absolute magnitude value than the Sun





In a neutron star, electrons and protons are squeezed together to form ____

- A. Nuclei
- B. Neutrons
- C. Neutrals
- D. Neutrinos





Phases of the moon come from Earth's shadow cast on the Moon.

- A. True
- B. False





Moon phases occur as a result of the Moon's position relative to the Earth and the Sun.

- A. True
- B. False





We always see the same side of the Moon from Earth.

- A. True
- B. False





During New Moon, the Moon, the Earth and the Sun lie almost in the same line.

- A. True
- B. False





The terms waxing and waning in Moon phases refer to:

- A. Growing and shrinking in illumination respectively
- B. Growing and shrinking in size respectively
- C. Shrinking and growing in illumination respectively
- D. Shrinking and growing in size respectively





Which of the following statements is incorrect about the Kuiper belt?

- A. It is found beyond Neptune
- B. It is where most dwarf planets are found
- C. It is found between Mars & Jupiter
- D. It surrounds our star, the Sun





At what average speed does Earth go around the Sun?

A. 9,8 km/s

B. 11,2 km/s

C. 29,8 km/s

D. 23,9 km/s





At what average speed does the Moon go around the Earth?

- A. 9800 km/h
- B. 4200 km/h
- C. 3680 km/h
- D. 2390 km/h





The combination of the Moon's size and its distance from the Erath causes it to appear the same size as the Sun from the Earth.

- A. True
- B. False





Colours of stars can tell their surface temperatures. Which of the following arrangement represents colours of stars from hottest to coolest.

- A. Blue>white>red
- B. White>blue>red
- C. Red>Blue>white
- D. Blue>Red>white





Which of the following planets has the shortest year, zero satellites and is covered with high mountains, valleys & craters?

- A. Mars
- B. Venus
- C. Earth
- D. Mercury





The northern and southern hemispheres of the Earth experience the same seasons at the same time.

A: True

B: False





What is the name given for the shortest and the longest days of the year?

A: Equinoxes

B: Solstices

C: Vernal

D: Autumnal





Which one of the following spacecrafts passed one of the dwarf planets in July 2015?

- A. Mariner Mark II
- B. Viking
- C. Cassini
- D. New Horizons





Which dwarf planet was passed by the spacecraft in Question 19 above?

- A. Ceres
- B. Eris
- C. Pluto
- D. Haumea





Just like stars have different sizes and colours, galaxies have different sizes and shapes.

- A. True
- B. False





During which moon phase can we experience a total solar eclipse?

- A. Full Moon
- B. New Moon
- C. First Quarter
- D. Last Quarter





This planet has satellites, craters and higher mountain peaks than any other planet. Which planet is it?

- A. Mercury
- B. Mars
- C. Venus
- D. Earth





Which celestial body has satellites and a centre of compressed hot liquid of metallic hydrogen?

- A. Neptune
- B. Pluto
- C. Jupiter
- D. Uranus





Which of the following planets is tilted over by approximately 90°?

- A. Earth
- B. Saturn
- C. Uranus
- D. Neptune





The planets of which pair below, represent the biggest planets within their own groups?

- A. Mercury & Saturn
- B. Jupiter & Earth
- C. Uranus & Mercury
- D. Jupiter & Uranus





Which planet spins on its axis more slowly than all others?

- A. Mercury
- B. Venus
- C. Pluto
- D. Jupiter





Which of the following celestial bodies takes the least time to go around the Sun?

- A. Earth
- B. Pluto
- C. Mercury
- D. The Moon





QUESTION 29 Who was the first man in space?

- A. Alan Shephard
- B. Yuri Gagarin
- C. Neil Armstrong
- D. Mark Shuttleworth





It is possible to have more than four eclipses in one year.

A. True

B. False





THANK YOU FOR PARTICIPATING





SUDDEN DEATH TIE BREAKERS





RULES

 Please note that the first team to give the correct answer, is the winner. Other than that, you can proceed with other questions until you get a winner.

 If all questions are exhausted and no winner is identified, you are more than welcome to set other questions or use the previous ones.





The speed at which the Moon goes around the Earth is the same as that at which the Earth goes around the Sun.

A. True

B. False





An instrument used to measure the movement of a star towards or away from the Earth is a(n)____

- A. Spectroscope
- B. Microscope
- C. Stethoscope
- D. Oscilloscope





Which one of the following is the smallest?

- A. Atom
- B. Asteroid
- C. Pluto
- D. The Moon





What is a starburst galaxy?

- A. It is a galaxy with bursting stars
- B. It is a galaxy with very high star birth rate
- C. It is a galaxy that produces burst of intense light in a regular way
- D. None of the above





A light year is a measure of____

- A. Time
- B. Light
- C. Distance
- D. Speed





The Milky Way Galaxy belongs to a collection of galaxies known as ______

- A. Local Group
- B. Milky Way Galaxy
- C. Triangulum Galaxy
- D. Small Magellanic Cloud





What is the name of the supercluster of galaxies to which the Milky Way belongs?

- A. Sagittarius
- B. Virgo
- C. Superfly
- D. Coma





Which of the following is incorrect about the Milky Way and Andromeda Galaxies?

- A. They are almost similar in shape
- B. They have dwarf galaxies orbiting them
- C. They are expected to collide together in future
- D. They are equidistant from the Earth





The solar system lies at the centre of the Milky Way Galaxy.

A. True

B. False





The most abundant element in the universe is

- A. helium
- B. hydrogen
- C. carbon
- D. silicon



