Science Bowl Questions

1. Toss up: Short Answer:

What is the biggest asteroid known to us?

Answer: Ceres

Bonus: Short Answer:

What is the idea of Hawking Radiation?

Answer: A black hole situation in which light can escape.

1. Toss up: Multiple choice:

How many Earth days are in one Mercurian Year?

w) 88

x) 111

y) 123

z) 356

Answer: W

Bonus: Multiple Choice:

One teaspoonful of a Neutron star is equivalent to which of the following?

w) A car

x) A mountain

y) Earth’s Population

z) Earth

Answer: Y

1. Tossup: Short Answer:

What is the only element in the universe that cannot exist in solid form?

Answer: Helium

Bonus: Multiple Choice:

What moon in the solar system has oceans of natural gas?

w) Titan

x)IO

y)Europa

z)Ganymede

Answer: W

1. Toss up: Short Answer:

A quasar can produce how many Sun’s energy?

Answer: 1 Trillion

Bonus: Multiple Choice:

Every year the moon moves away from us by how much?

w) 4.6 centimeters

x) 5.4 centimeters

y) 9.8 centimeters

z) 3.8 centimeters

Answer: Z

1. Toss up: Multiple Choice:

An average galaxy contains how many stars?

w) 40 billion

x) 50 billion

y) 60 billion

z) 70 billion

Answer: W

Bonus: Short Answer:

Mar’s Surface is covered mainly with what substance?

Answer: Iron Oxide

1. Toss up: Multiple Choice:

The closest black hole to the Earth is about how far away?

w) 1600 light years

x) 1700 light years

y) 1800 light years

z) 1900 light years

Answer: W

Bonus: Short Answer:

What is the largest structure found in the universe?

Answer: Sloan Great Wall

1. Toss up: Multiple Choice:

What is the 4th largest moon in our solar system?

w) Titan

x) Luna

y) Ganymede

z) Callisto

Answer: X

Bonus: Short Answer:

The Sahara Desert is composed mainly with what?

Answer: Rocks and Gravel

1. Toss up: Short Answer:

What is the largest inland sea in the world?

Answer: Caspian Sea

Bonus: Short Answer:

What is the largest living structure in the world?

Answer: Great Barrier Reef

1. Toss up: Short Answer:

What Red Giant Star is the right shoulder of Orion the Hunter?

Answer: Betelgeuse

Bonus: Multiple Choice:

What shape is the Earth?

w) Sphere

x) Oblate spheroid

y) Armillary Sphere

z) Curved cylinder

Answer: X

1. Toss up: Multiple Choice:

The temperatures on Venus are hot enough to melt what?

w) Lead

x) Diamond

y) Titanium

z) Gold

Answer: W

Bonus: Short Answer:

What two planets have rings in our solar system?

Answer: Saturn and Neptune

1. Toss up: Short Answer:

When the Earth is farthest away from the Sun, What season is it in the Northern Hemisphere?

Answer: Summer

Bonus: Short Answer:

Elliptical, Spiral, and Irregular are classifications of what astronomical systems?

Answer: Galaxies

1. Toss up: Multiple Choice:

Who wrote “On the Revolutions of Heavenly Bodies”?

w) Tyco Brahe

x) Johannes Kepler

y) Nicolas Copernicus

z) Galilee Galileo

Answer: Y

Bonus: Short Answer:

You are lighter by 3% at the poles of the Earth due to what force?

Answer: Centrifugal Force

1. Toss up: Short Answer:

What are some of the flattest structures know to man?

Answer: Saturn’s Rings

Bonus: Multiple Choice:

The Sun expounds how may tons of hydrogen every second?

w) 500 million tons

x) 600 million tons

y) 700 million tons

z) 800 million tons

Answer: X

1. Toss up: Short Answer:

In how many different ways can a star die?

Answer: 3

Bonus: Short Answer:

What is the closest star to us other than the Sun?

Answer: Proxima Centauri

1. Toss up: Multiple Choice:

What is the only planet that could float in water?

w) Jupiter

x) Saturn

y) Mars

z) Neptune

Answer: X

Bonus: Short Answer:

What is the tallest mountain in the solar system?

Answer: Olympus Mons

1. Toss up: Short Answer:

What is the density of the Earth?

Answer: 5.52 g/cm^3

Bonus: Multiple Choice:

What percent of the Sun’s mass has been converted to energy?

w) .001%

x) 1%

y) 10%

z) 50%

Answer: W

1. Toss up: Multiple Choice:

What is the diameter of the Milky Way Galaxy?

w) 1,000 light years

x) 10,000 light years

y) 100,000 light years

z) 1,000,000 light years

Answer: Y

Bonus: Multiple Choice:

Which astronomer discovered the Whirlpool Galaxy?

w) William Parsons

x) Charles Messier

y) Cecilia Payne-Gaposchkin

z) Johannes Kepler

1. Toss up: Short Answer:

The H-R diagram was named after which two scientists?

Answer: Ejnar Hertzsprung and Henry Russell

Bonus: Short Answer:

What was the temperature at the very beginning of the Big Bang?

Answer: 10^27 Kelvin

1. Toss up: Multiple Choice:

What is the average surface temperature of the Earth?

w) 59 degrees Fahrenheit

x) 60 degrees Fahrenheit

y) 70 degrees Fahrenheit

z) 80 degrees Fahrenheit

Answer: W

Bonus: Short Answer:

In what layer of the Earth’s atmosphere does the Aurorae occur?

Answer: Thermosphere

1. Toss up: Short Answer

What is the core of Neptune made of?

Answer: Rock and Ice

Bonus: Short Answer:

What was the name of the first animal in space?

Answer: Laika (Dog)

1. Toss up: Multiple Choice:

Who was Dennis Tito?

w) The first businessman in space

x) Founder of NASA

y) Discoverer of black hole

z) A famous astronomical writer

Answer: W

Bonus: Short Answer:

The photosphere of the sun is what temperature?

Answer: 10,300 degrees Fahrenheit

1. Toss up: Short Answer

According to Kepler’s theories, planets have what types of orbits?

Answer: Ellipse

Bonus: Short Answer:

Which Apollo landing was cancelled due to a explosion of an oxygen tank?

Answer: Apollo 13

1. Toss up: Short Answer:

What year did Neil Armstrong walk n the moon?

Answer: 1969

Bonus: Short Answer:

What is the name of Pluto’s only moon?

Answer: Charon

1. Toss up: Multiple Choice:

What day of the year does the Summer solstice occur?

w) August 5th

x) July 3rd

y) June 3rd

z) June 21st

Answer: Z

Bonus: Short Answer:

Name the only two moonless planets.

Answer: Venus and Mercury

1. Toss up: Multiple Choice:

A comet’s tail points in which direction?

w) Away from the sun

x) Towards the sin

y) Towards the Earth

z) Towards the moon

Answer: W

Bonus: Short Answer:

What is the name of the process in which one small asteroid hits a larger one and creates many small other asteroids?

Answer: Shattering