

Quiz Date: \_\_\_\_\_

Part A - Multiple Choice

- The study of what is beyond Earth is called:
  - Astrology
  - Spaceology
  - Astronomy
  - Spectroscopy
- The time it takes for the Earth to go around the Sun is about:
  - 12 hours
  - 24 hours
  - 365 days
  - 6 months
- Day and night are caused by:
  - the Earth orbiting around the Sun
  - the Sun orbiting around the Earth
  - the tilt of the Earth on its axis
  - the Earth rotating on its axis
- Seasons are caused by:
  - the Earth revolving around the Sun ✓
  - the Earth rotating on its axis
  - the tilt of the Earth on its axis ✓
  - a and c
- What is the shortest day of the year in Canada, in terms of sunlight?
  - June 21
  - December 21
  - March 21
  - September 21
- Ocean tides are caused by the:
  - Moon's gravity
  - Earth's atmosphere
  - Earth's rotation
  - Earth's magnetic field
- The length of time taken for the Moon to revolve around the Earth is about
  - 1 day
  - 1 week
  - 1 month
  - 1 year
- Which statement about planets is true:
  - Planets are larger than most stars ✗
  - Planets are hotter than stars ✗
  - Planets produce their own light ✗
  - Planets are located in our solar system ✓
- Cassiopeia in the night sky refers to:
  - a planet
  - the North star
  - a distant galaxy
  - a constellation
- Polaris is located:
  - ~~a~~ always in the same part of the sky ✓
  - on the handle of the Big Dipper ✗ *small*
  - approximately North ✓
  - both (a) and (c)
- The North Star (Polaris) is located in which of the following constellations?
  - The Big Dipper
  - Orion
  - The Little Dipper
  - Cassiopeia
- The colour of a star is an indicator of its:
  - size
  - luminosity
  - age
  - temperature
- A light year is a measurement of:
  - time
  - speed
  - distance
  - brightness
- Which of the following objects are nonluminous?
  - Earth ✓
  - Moon ✓
  - stars
  - a and b
- When the Sun is directly over the Equator, and the amount of daylight is equal to the amount of darkness, we have a day called the:
  - Equinox
  - Solstice
  - Vernal
  - Lunar
- A constellation is a group of stars that:
  - are located near each other in space
  - form a picture or pattern ✓
  - seem to be moving closer and closer together
  - is always seen in the same part of the sky
- Which of the following is true of the outer planets?
  - small in size
  - hot in temperature
  - have little to no moons orbiting them
  - known as the gas giants
- The inner planets are Mercury, Venus, Earth and Mars.  a) True b) False

Part B - Short Answer

Write complete answers to the following questions in the spaces provided.

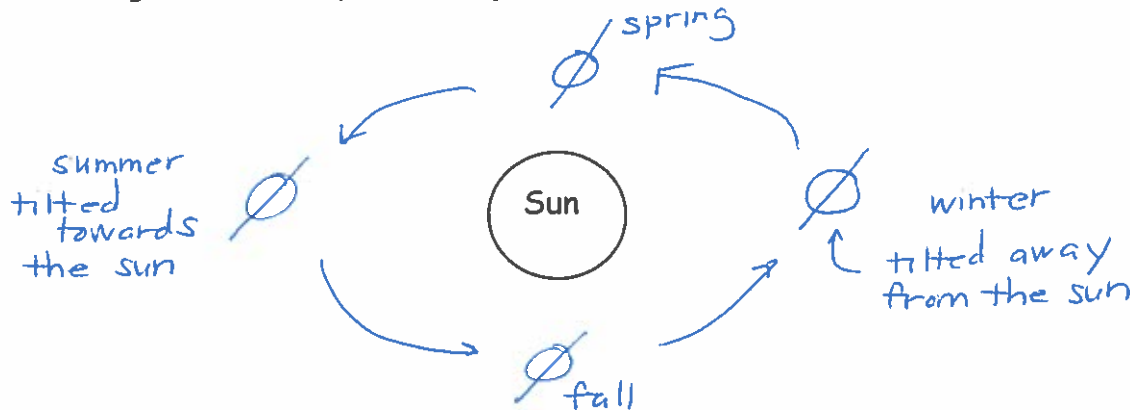
1. a) What are the two main reasons that we have seasons here in Canada?

1. Earth is tilted on its axis

2. Earth revolves around the sun



b) Draw a diagram to show why we at WO get four seasons? Label the seasons.



2. Describe two hazards astronauts may encounter while working in space to build an object such as the International Space Station and describe how astronauts may protect themselves from these dangers.

First Hazard:

no air

Second Hazard:

flying debris / rocks

Protection Against It:

suit with oxygen

Protection Against It:

space suit (Kevlar)

3. Name one long term effect of a weightless environment on the human body? How can this be overcome?

Long Term Effect:

bone density decreases

How can it be avoided?

exercise ~ 2 hour a day

4. Name 3 things that Canada has contributed to the space program?

- Canadarm and Canadarm 2
- Dextre
- Mobile Base System

5. Describe three differences between planets and stars.

	Planets	Stars
1	closer	far
2	reflects light	gives off its own light
3	cool or very cold smaller	very hot larger