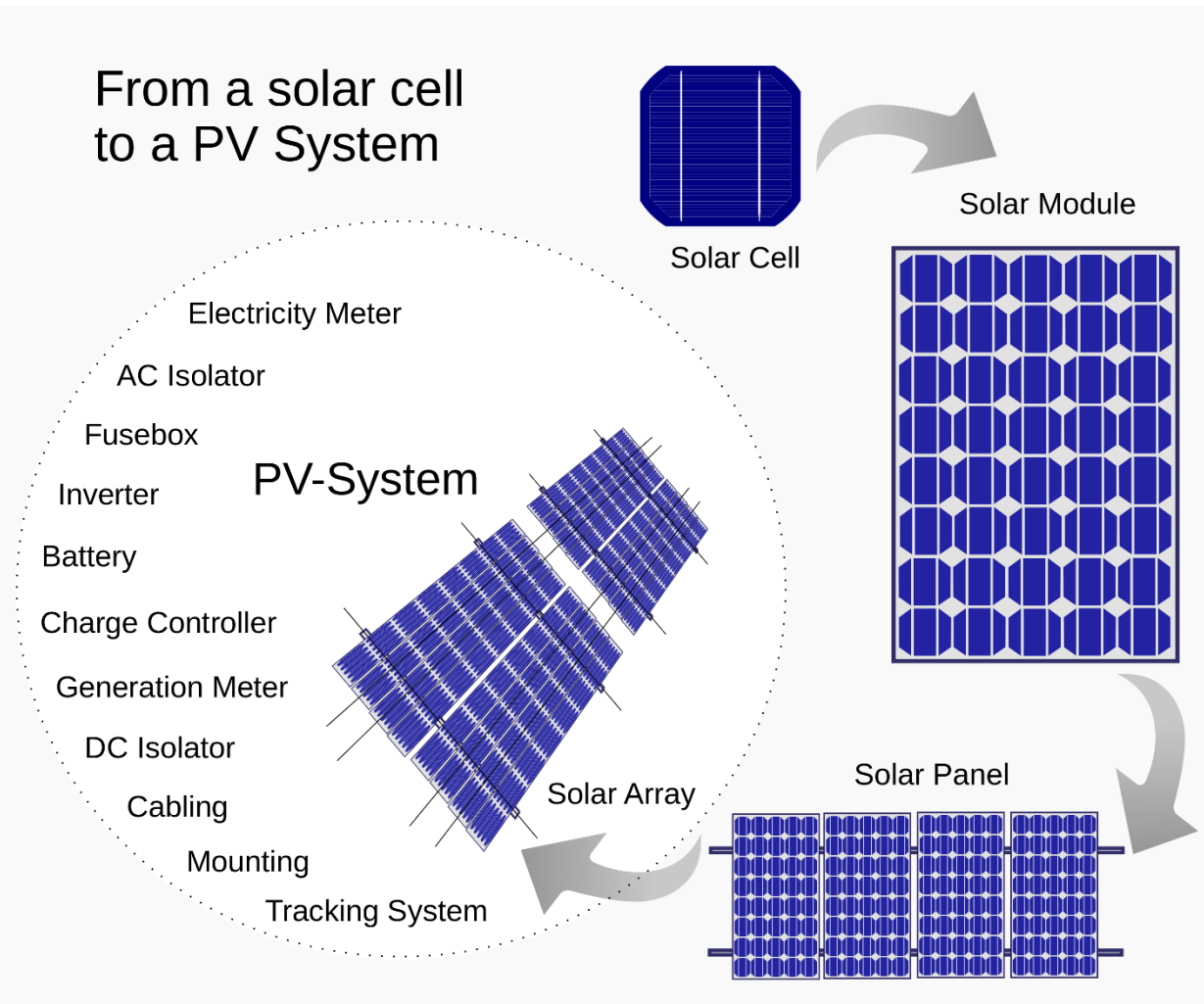


## Unit 10- Life on Earth Review

- Which of the following properties is least important for sustaining life on Earth?
  - Distance from the Sun
  - Orbit Shape
  - Atmosphere
  - Surface Structure (rocks and water)
- What is microgravity? (define)
- How does microgravity affect human muscles in space?
  - It causes muscles to swell and work harder.
  - There is no effect of microgravity on muscles of humans in space.
  - It causes muscles to shrivel and not function in space.
  - It causes the muscles to work less causing muscular atrophy.
- Explain how greenhouse gasses and radiation in the atmosphere contribute to life on Earth?
  - Gases- \_\_\_\_\_  
\_\_\_\_\_
  - Radiation- \_\_\_\_\_  
\_\_\_\_\_
- How does water in liquid form help life to exist on Earth? Explain.
- How does water in solid form (ice) help life to exist on Earth? Explain.
- How does water in gas form (water vapor) help life to exist on Earth? Explain.
- Which of the following would not be a priority to recycle in space shuttle for survival of explores?
  - Waste water to drinking water
  - Oxygen gas to Nitrogen gas
  - Nitrogen to Carbon dioxide
- All of the following factors of a space suit help manned exploration, except-
  - Protection form micro meteors
  - Body temperature regulation
  - Radiation protection
  - Nitrogen gas storage

# From a solar cell to a PV System



Analyze the diagram above to answer the questions below.

10. Solar panels are used to convert
  - a. Chemical energy into mechanical energy
  - b. Mechanical energy into radiant energy
  - c. Radiant energy into electrical energy
  - d. Electrical energy in to chemical energy
  
11. Identify the correct location for the construction of a solar panel
  - a. Multiple solar panels come together to form a solar module
  - b. Multiple solar cells come together to form a solar module
  - c. Multiple solar cells come together to form a solar panel
  - d. Multiple solar modules come together to form a solar cell
  
12. What is mean to be in the “habitable” proximity to the Sun? Explain.