

## SO7 HW 1

**Due Thursday 9/14 in Archie by 11:59 pm**

Using the 2024 rules book and doing your own research, create 20 questions to test your classmates' knowledge about the topic below. Your questions can be multiple choice, fill in the blanks, label diagrams/drawings, analyze graphs, etc. Type your quiz, save as a pdf and submit it as homework in Archie.

Quiz topic:

Anatomy & Physiology - Rule Book page B7

3. **THE COMPETITION:** This Event may be administered as a written test or as series of lab-practical stations which can include but are not limited to experiments, scientific apparatus, models, illustrations, specimens, data collection and analysis, and problems for students to solve. Content topics will include:

- a. **CARDIOVASCULAR SYSTEM:**
  - i. Anatomy and physiology of the cardiovascular system
  - ii. The Heart – chambers and valves of the heart, electrical stimulation of myocardial tissue, pacemaker tissue, interpreting ECG/EKG readings on strips, effect of electrolyte abnormalities on heart rhythm
    - (1) Lethal & non-lethal cardiac strip ECG/EKG pattern interpretation:
      - (a) Division B Only: Atrial Fibrillation (A Fib), Pulseless Electrical Activity (PEA), Ventricular Tachycardia (V Tach)

Need a place to start researching? Try these:

[Anatomy and Physiology | Science Olympiad](#)

[Scioly.org](#)

[SEER Training: Introduction to the Cardiovascular System](#)

[Heart: Anatomy and Function](#)