



# Arcane Diagnostics

The Biology Category is designed to test students' conceptual understanding, analytical skills, and application of biological knowledge in real-world and competitive scenarios. The event progresses from fast-paced conceptual recall to high-level diagnostic reasoning under pressure. Participants are expected to demonstrate teamwork, logical thinking, and scientific accuracy across all rounds.

# Round 1:

This round replaces traditional MCQs with an interactive Connect-4 battle using physical Connect-4 boards. Two teams compete head-to-head. Each correct MCQ allows a team to place one disc of their assigned color onto the board. The first team to achieve four connected discs horizontally, vertically, or diagonally wins the match.

## Key Focus Areas:

- Core biology concepts
- Speed and accuracy
- Strategic decision-making

This round is fast-paced, visual, and highly competitive, making it ideal for testing conceptual clarity under time pressure.

## Delegate Cap: 2

## Round 2:

The final round elevates the competition into a high-stakes medical mystery challenge. Teams are given a detailed, structured case file containing patient history, clinical symptoms, laboratory data, imaging results, and environmental or genetic clues.

Using critical thinking and biological reasoning, teams must identify the correct disease, eliminate red herrings, and justify their diagnosis using clear, evidence-based arguments.

### Final Round Objectives:

- Accurate disease identification
- Logical elimination of incorrect possibilities
- Clear scientific justification

This round tests advanced analytical skills, integration of multiple biological concepts, and the ability to perform under final-round pressure - making it a decisive and exciting conclusion to the Olympiad.

### Delegate Cap: 3

**Syllabus:** All concepts, principles, and tasks assessed in this round will be based on the O Levels, A Levels, and FSC Biology curricula.