

2022 Hudson Middle School

Bio-Process Lab Tryout Rule Sheet

Please remember, this is meant to be a fun activity, not a stressful process. Selection for the team will be based on a multitude of factors, including but not limited to availability of slots on the team, previous experience, commitment to the program, willingness for parental involvement, critical thinking ability, and performance on the tryout test.

Event Parameters:

Each student is allowed to bring in 1 double-sided page of notes (pictures, hand written, typed text, ect.) The test will be divided up into six areas of basic biology laboratory science. We have provided the resources students should use to study the content in the form of links to videos and text.

Part 1: pH indicators (pH, starch/ochem, etc.) ex “What color is phenolphthalein”

- a. <https://www.youtube.com/watch?v=xYQlvTbIgCY>

Part 2: The parts of a light microscope

- a. <https://microbenotes.com/parts-of-a-microscope/>

Part 3: Structure of a cell

- a. https://training.seer.cancer.gov/anatomy/cells_tissues_membranes/cells/structure.html

Part 4: The periodic table groups. Specifically, know the name and chemical symbol of the first 18 elements on the periodic table (atomic numbers 1-18, hydrogen to argon)

- a. <https://www.livescience.com/28507-element-groups.html>
- b. <https://ptable.com/?lang=en#Properties>

Part 5: Basic laboratory safety

- a. <https://www.flinnsci.com/api/library/Download/27a18776135742dc848103f24b4dbb85>

Part 6: Laboratory Equipment

- a. <https://7esl.com/laboratory-equipment-vocabulary/>