

`Lab Skills Rubric

SK1 - Planning & Initiating

These are the skills of questioning, identifying problems and developing preliminary ideas and plans.

- a. I can define and delimit problems to facilitate investigation.
- b. I can design an experiment by identifying, defining, and controlling major variables.
- c. I can identify questions to investigate that arise from practical problems and issues.
- d. I can select appropriate procedures and instruments for collecting evidence and information.
- a. I can state a prediction and a hypothesis based on available evidence and background information.

SK2 - Performing & Recording

These are the skills of carrying out a plan of action that include gathering evidence by observation and, in most cases, manipulating materials and equipment.

- a. I can carry out procedures, controlling the major variables and adapting or extending procedures.
- b. I can estimate quantities and use instruments and tools effectively and accurately for collecting data.
- c. I can demonstrate safe practices for the use of personal protective equipment in the laboratory
- d. I can demonstrate safe practices in the handling, storage and disposal of chemicals in the laboratory or classroom.
- e. I can compile and organize data, using appropriate formats and data treatments to facilitate interpretation of the data.

SK4 - Communication & Teamwork

In science, as in other areas, communication skills are essential at every stage during which ideas are being developed, tested, interpreted, debated and agreed upon. Teamwork skills are important, as the development and application of science ideas are collaborative processes both in society and in the classroom.

- a. I can select and use appropriate scientific language to communicate ideas, plans, and results.
- b. I can actively contribute to the lab process, staying focused on the task with a positive and inquisitive attitude.
- c. I can work cooperatively with team members to develop and carry out a plan and to troubleshoot problems as they arise.
- d. I can communicate questions, ideas and intentions; and receive, interpret, understand, support and respond to the ideas of others.

Outcome	MAS (4)	PRG (3)	BEG (2)	LIM (1)	IE (0)
SK1 Initiating & Planning	Performs all skills to an exceptional standard.	Performs skills to a proficient standard.	Performs skills to an adequate standard.	Performs skills to a limited standard.	Did not complete pre-lab.
SK2 Performing & Recording	Performs all skills to an exceptional standard.	Performs skills to a proficient standard.	Performs skills to an adequate standard.	Performs skills to a limited standard.	Performed experiment unsafely.
SK4 Communication & Teamwork	Performs all skills to an exceptional standard.	Performs skills to a proficient standard.	Performs skills to an adequate standard.	Performs skills to a limited standard.	Did not participate or contribute to activity.

