Sorting Algorithm Evidence Proficiency Rubric

Documentation of independent work process

EMERGING

No evidence or explanation provided; cannot verify independent work

- No saved copies of notebooks; zip folder empty or missing
- No explanation given for why evidence is missing
- Files submitted appear identical with no progression visible
- Submits more than 3 days late without communication or does not submit at all

PROFICIENT

Clear evidence showing progression of independent work

- 4+ notebook copies showing work at different stages for each algorithm
- Different random seeds and test outputs show work done at different times
- Clear progression from empty functions to working code with debugging visible
- Submits on time as organized zip folder, communicates about any issues

DEVELOPING

Some evidence provided but incomplete or hard to verify

- Fewer than 4 notebook copies; missing evidence for some algorithms
- Provides explanation for missing evidence but it is vague or unclear
- Some progression visible but timestamps or random seeds don't show clear timeline
- Submits 1–2 days late or last-minute; zip folder disorganized

EXTENDING

Excellent documentation of learning process and problem-solving

- Multiple saves per algorithm showing iterative debugging and improvement
- Evidence includes failed attempts and how they were fixed
- Files clearly named and organized (e.g., bubble, merge, quick)
- Submits early with well-documented evidence; could explain their process if asked

Assessment Note: Submit a zip folder with copies of your notebook saved at different stages of development. Ideally 4+ copies showing progression for each sorting algorithm. Different random seeds in the output help verify work was done at different times. If evidence is missing, include a written explanation.