

Separating Mixtures: Recycling Challenge – Assessment Rubric

Criteria	Level 1	Level 2	Level 3	Level 4
Science Connections	The student’s invention had no evidence of research, and demonstrated no scientific knowledge.	The student’s invention had minimal evidence of research and demonstrated some scientific knowledge.	The student’s invention had evidence of research and demonstrated scientific knowledge.	The student’s invention was well researched and demonstrated high levels of scientific knowledge.
Objective	The student’s invention only incorporates one separation technique and requires extensive use of their hands.	The student’s invention incorporates two separation techniques and requires some use of their hands.	The student’s invention incorporates three or more separation techniques and requires some use of their hands.	The student’s invention incorporates three or more separation techniques and does not require their hands.
Procedure	The student did not use the design process or their time effectively. They did not collaborate.	The student tried the design process, used project time well, and collaborated at times.	The student mostly used the design process, used most of the project time constructively, and collaborated.	The student used the design process, used project time constructively, and found ways to collaborate beyond class structure.
Reflection	The student cannot describe how their invention works.	The student can mostly describe how their invention works.	The student can describe how their invention works and can outline the procedure they used.	The student can describe their invention so anyone could use it. They are able to describe all steps of their design process.
Presentation	The presentation has little relevant information and is not structured as a sales pitch. The duration of the presentation is far too long and had to be cut short.	The presentation is interesting and incorporates some elements of an effective sales pitch. The presentation is not within the 2-minute time limit.	The presentation is engaging, and incorporates most elements of an effective sales pitch. The presentation is not within the 2-minute time limit.	The presentation is engaging, within the 2-minute time limits, and incorporates all elements of an effective sales pitch.