

SKETCHING/PROBLEM SOLVING RUBRIC

OUTCOME	Unacceptable 0	Not yet acceptable 1	Acceptable 2	Exemplary 3	Sub Totals	TOTALS
Six Simple tools are sketched, labeled and easily recognized	Sketches are incomplete and poor representations of the simple tools or no sketches are done	Sketches do not show the tools clearly or are missing need aspects such as the wheel for the pulley	Sketches are complete and clear but are not labeled as to what they are	Sketches are complete, good representations, labeled, easily recognized and all six tools are present		
Six simple tools are sketched into a student design scenario which could possibly function and shows all parts labeled and explained to viewer	Tools are drawn but no design scenario using the tools is shown	Six simple tools are drawn and can be seen but no function or design scenario is evident	Six simple tools are clearly shown, labeled, and set into a functioning design scenario but design isn't believable due to error in possible function of tools selected	Six simple tools appear in functioning , believable design scenario with all parts clearly labeled and explained by designer		
Student can identify and determine function, tools, and purpose of Rube Goldberg designs given and explain in writing how the device would work	Function is determined but no write up as to tools, or process is written	Function is determined, tools are identified but detailed description of process is not included	Function is determined, tools are identified, detailed description of process is included but explanation of how device would work is not included	Student can identify and determine function, tools, and purpose of Rube Goldberg designs given with detailed description of process and explanation in writing of how the device would work		
Rube Goldberg type device is designed showing and explaining all parts, tools, functions to perform given assigned teacher task	No sketches are given or sketches are missing 60% or more of required components	Required components are visible but no explanation nor showing of tools are parts are identified	Sketch shows all tools, explanations, parts and functions are identified, however, believability as to whether tools chosen could perform task given	Device is designed showing and explaining all parts, tools, functions to perform given assigned teacher task and seems feasible		