

## ROBOTIC END EFFECTOR RUBRIC

<b>OUTCOME</b>	<b>Unacceptable 0</b>	<b>Not yet acceptable 1</b>	<b>Acceptable 2</b>	<b>Exemplary 3</b>	<b>Sub Totals</b>	<b>TOTALS</b>
Student followed directions as stated and were able to complete given task with completed end effector	End effector not completed, does not function	End effector completed, unable to pick up required item	End effector completed, able to complete assigned task	End effector completed, able to complete assigned task and create and complete an additional task		
Complete set of sketches for three possible end effector ideas using supplied materials	Sketches not completed	Sketches complete but poor quality, not showing parts are labeling of pieces needed	Sketches are complete and of good quality but only two are done instead of required three	Complete set of sketches for three possible end effector ideas using supplied materials with all parts clearly labeled		
Robotic end effector completed according to sketch plans	End effector never completed nor functions. Does not resemble any of sketches	End effector completed, however does not function when syringe is engaged	End effector completed according to sketch plans and performs minimally	End effector completed according to sketch plans and performs smoothly without breaking		
All five given tasks completed Using the group built end effector	None of the tasks could be completed	Only two of the tasks could be completed	Only three or four of the tasks could be completed	All five of the tasks could be completed easily		
Complete set of plans presented for construction of a functioning robotic syringe robot arm capable of lifting and moving eggs	No plans completed	Plans are not clearly labeled and lack all necessary components	Plans are clearly labeled and show all parts needed for construction, however, clearly can be seen that it won't be capable of functioning as required	Plans are clearly labeled and show all parts needed for construction, clearly can be seen that it has possibilities of functioning as required		
Student can identify and is knowledgeable about careers related to robotics	Student knows no careers or can only name what they are	Student can only speak to or talk about names for available careers in robotics	Student can identify and speak about at least one career in robotics	Student can identify a career and has made a presentation to class showing all aspects of the career		