

## Mechanical Station LAB 2.2: Levers and Muscle Contraction Rubric

CATEGORY	100	80	60	0
Antagonistic Muscle Answers	Student correctly identified attachment points, made predictions for all sections and noted correct observations.	Student only completed 2 of the 3 sections: attachment point identification, predictions and correct observations.	Student only completed 1 of the 3 sections: attachment point identification, predictions, or correct observations.	Student did not complete any of the 3 sections.
Effort Force Measurement	All effort force measurements were accurate +/- 0.5 Newtons.	Two effort force measurements were accurate +/- 0.5 Newtons, the other was more than +/- 0.5 N but no more than +/- 1 N off.	One effort force measurement was accurate +/- 0.5 Newtons, two measurements were more than +/- 0.5 N but no more than +/- 1 N off.	All force measurements were off by more than +/- 1 Newton.
Mechanical Advantage Calculation	All mechanical advantage calculations were accurate +/- 0.01.	Two mechanical advantage calculations were accurate +/- 0.01, the other was more than +/- 0.01 but less than +/- 0.02 off.	One mechanical advantage calculation was accurate +/- 0.01, two calculations were more than +/- 0.01 but less than +/- 0.02 off.	All mechanical advantage calculations were off by more than +/- 0.02.
Participation	Student had a positive attitude and asked questions when needed.	Student had a neutral attitude and was reluctant to ask questions.	Student had a neutral attitude and did not ask questions even when struggling.	Student had a negative attitude and did not ask questions even when struggling.
Use of Resources	Student applied the terms listed on the flashcards provided. Student watched all three videos.	Student applied the terms listed on the flashcards provided. Student only watched 1-2 videos.	Student only completed the flashcards OR 1-2 videos.	Student did not complete the flashcards OR any of the videos.
Application Questions	Student gave reasonable answers to all 3 application questions.	Student gave reasonable answers to all 3 application questions with help from the coach.	Student gave reasonable answers to only 1 or 2 application questions.	Student gave Unacceptable answers to all 3 application questions.

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