GRADING RUBRIC - CODE

Team:_____

Challenge				TOTAL POINTS
001	2 points - Rolled out of the LM and landed in the [2x2] square centered at [7,7].	1 point - Rolled out of the LM but did not land in the [2x2] square.	You will lose 1 pt. if you have to move the BOLT.	**2**
002	2 points- Completed turn without leaving the [2x2] square, and spoke the quote.	1 point - One of the two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
003	3 points - Successfully rolled around the LM without falling into the crater, touching the LM, or hitting Buzz. Rolled back to original location.	1 point- Hit an external object or did not land back in the same position.	You will lose 1 pt. if you have to move the BOLT.	**3**
004	2 points - Rolled to Buzz and landed in correct viscinity and did not hit Buzz.	1 point - One of these two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
005	2 points - Rolled into correct viscinity did not hit the flag.	1 point - One of these two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
006	1 point - Completed flag animation.			**1**
007	2 points - Rolled into correct viscinity did not fall into the crater.	1 point - One of these two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
008	2 points - Completed turn and matrix animation.	1 point - One of these two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
009	2 points - Correctly implemented equation in code and did not exceed top speed.	1 point - Did not implement equation correctly or the top speed was exceeded in future actions.		**2**
010	2 points - Rolled into correct viscinity and did not hit Buzz.	1 point - One of these two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
011	2 points - Rolled into correct viscinity and completed matrix animation.	1 point - One of these two actions was not completed.	You will lose 1 pt. if you have to move the BOLT.	**2**
012	A: 3 points - 1 point for the correct answer, 1 point for correct units, and 1 point for using the correct variable in the code.			**3**
	B: 3 points - 1 point for the correct answer, 1 point for correct units, and 1 point for using the correct sensor in the code.			**3**
	C: 5 points - 1 point for the correct answer, 1 point for correct units, and 3 points for creating and using 3 new variables in the code.			**5**
	D: 4 points - 1 point for the correct answer, 1 point for creating and using a new variable, 1 point for the correct sensor, and 1 point for the correct equation.			**4**
	E: 3 points - 1 point for creating and using a new variable, 1 point for correct units, and 1 point for using the correct sensor in the code.			**3**
OTHER	5 points - See comment in Neil code for extra credit opportunity.			**5**
TOTAL	10 points - The code ran fully without having to touch the BOLT.			**50**

GRADING RUBRIC - CREATIVE

Team: _____

Objects				15
LM	5 points - Great detail went into this object. From every aspect it is amazing!	3 points - A sufficient amount of detail went into this object.	1 point - No real effort was put into designing this object.	5
Flag	5 points - Great detail went into this object. From every aspect it is amazing!	3 points - A sufficient amount of detail went into this object.	1 point - No real effort was put into designing this object.	5
LRR	5 points - Great detail went into this object. From every aspect it is amazing!	3 points - A sufficient amount of detail went into this object.	1 point - No real effort was put into designing this object.	5
Matrix Animations				5
	5 points - All of the animations were fantastic. The team went above and beyond. Dynamic matrix animations were used.	3 points - The animations were good but they weren't amazing. No dynamic matrix animations were used.	1 point - The animations were simple with little effort put into the creativity of the design.	5
Mission Report				25
Title Page	5 points - Used all components seen in the mission report template. Great effort and detail can be seen.	3 points - Some components missing, but overall presentation looked good.	1 point - Little effort was put in to title page, not all components were there.	5
Table of Contents	5 points - All contents present.	3 points - Only missing 1 or 2 sections.	1 point - majority of sections missing.	1
Introduction	5 points - Great effort was put in researching the topic. The paragraph was grammatically correct and well written.	3 points - Sufficient effort was put in researching the topic. The paragraph had a few grammatical errors but was written well.	1 point - No effort was put into researching the topic. The paragraph had a many grammatical errors and was not written well.	5
Timeline	5 points - All of the events of the challenges you were able to complete were filled in fully.	3 points - Some of the events were filled in accurately but not all of them.	1 point - There was a section but no events.	5
Conclusion	5 points - Great effort was put in researching the topic. The paragraph was grammatically correct and written well.	3 points - Sufficient effort was put in researching the topic. The paragraph had a few grammatical errors but was written well.	1 point - No effort was put into researching the topic. The paragraph had a many grammatical errors and was not written well.	4
Style and Clarity	5 points - Overall there were no grammatical errors, the writing was clear and accurate, and the overall presentation of the mission was above and beyond our expectations.	3 points - Overall there were some grammatical errors, the writing was clear, and the overall presentation of the mission was good.	3 points - Overall there were many grammatical errors, the writing was decent, but the overall presentation of the mission was good.	5
Video				5
	5 points - The video followed the rules and could clearly convey the mission code running.	0 points - If any of the rules are broken while filming the code running, your mission will be disqualified.		5
TOTAL				50

GRADING RUBRIC - WRITTEN EXAM

Team: _____

Question	Points	COMMENTS	TOTAL POINTS
001	1 point for correct number of astronauts. 1 point for each correct name. 1 point for each correct titles. 1 point for the correct astronaut.	First and last name of the astronaut must be correct in order to receive the point.	8
002	1 point for the correct quote.		1
003	1 point for each correct dimension.		3
004	1 point for the correct item.		1
005	1 point for the correct height.		1
006	1 point for the correct reason.		1
007	1 point for the correct weight.		1
008	1 point for the correct age.		1
009	1 point for the correct top speed.		1
010	1 point for the correct name.		1
011	1 point for the correct explanation.		1
012	1 point for correct weight, part a. 1 point for correct luminosity, part b. 1 point for correct distance, part c. 1 point for correct number, part d. 1 point for correct time, part e.		5
OTHER	We will be accepting a range of values for questions that could result in varying answers depending on where a team did their research.		
TOTAL			25