

Names: _____

Kit Letter: _____

Period: _____

Cubes Moved: _____

Up and Over Challenge Rubric

Category	Needs Improvement (1 pt)	Fair (2 pts)	Good (3 pts)	Excellent (4 pts)
Innovative Design & Claw Modification	No modifications made to the basic claw set-up; basic design only.	Minimal or basic changes to the claw or drivetrain; limited improvement.	Thoughtful modifications to the claw and drivetrain to improve function; some creativity evident.	Significant, creative modifications to the basic claw set-up and drivetrain that enhance robot performance.
Strategy, Process & Problem-Solving	No design process or refinement communicated.	Limited evidence of refinement or planning.	Basic understanding of design process; some testing and refining.	Complete design process communicated from concept through build, test, and refinement.
Locomotion & Navigation	Struggles to move; inaccurate turns; team cannot drive effectively.	Moves somewhat efficiently; some driving issues.	Moves reasonably accurately; some team members can drive well.	Moves accurately and consistently; team drives effectively, allows for obstacles/variables.
Teamwork	Little teamwork or collaboration; work done by one or two members.	Some understanding of teamwork; building done mostly by one or two.	Team shares responsibility; understanding of design process.	Strong teamwork and collaboration; building and problem-solving done as a team.
Structural Quality	Weak structure; falls apart during handling.	Mostly stable but some structural errors.	Stable base with few errors; mostly robust design.	Stable, robust, and error-free design; creative and unique team design.
Participation	Rarely on task or engaged in project.	Sometimes on task but inconsistent effort or focus.	Usually engaged and on task; contributes to team work.	Consistently engaged, focused, and actively contributes to team tasks.
Organization & Clean-up	Frequently disorganized; does not help clean up.	Sometimes helps but leaves some messes or tools out.	Usually keeps workspace organized and helps clean up.	Consistently keeps area clean, tools organized, and fully participates in clean-up responsibilities.

Total Points: _____ / 28

Comments:

28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13
100	98	96	94	92	90	88	86	84	82	80	78	76	74	72	70