

Team Number: _____

School: _____

2016 Engineering Notebook Score Sheet

Purpose: To document the process used to design, build, and test the robot (30 Points)	Possible Points	Score
RESEARCH PAPER (4 Points)		
<ul style="list-style-type: none"> ▪ Correlation between game and how the science/technology is being used at a company/industry/research lab in the team's state or region 	10	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Any related information of game theme, such as history, famous inventor(s), or major milestones. 	10	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Creativity in linking game theme to appropriately related science content 	10	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Proper use of grammar and composition throughout paper, citations of sources used to gather information for paper, stayed within 2-5 page limit 	10	
<i>Comments:</i>		
DESIGN PROCESS (17 Points)		
<ul style="list-style-type: none"> ▪ Implementation of the Engineering Design Process Evidence that the engineering process was effectively used. 	25	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Brainstorming Approaches How well organized and productive was the brainstorming approach used? How well was the brainstorming approach documented? 	25	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Analytical Evaluation of Design Alternatives Use of analytical and mathematical skills in deciding upon and implementing design alternatives 	25	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Offensive and Defensive Evaluation Analysis of gaming strategies and design elements used to achieve team goals 	25	
<i>Comments:</i>		

<ul style="list-style-type: none"> ▪ Software Design and Simulation (from additional scoresheet) Evidence of custom software design vs default program; Demonstration of software design process; Evidence of use of simulation (e.g., Simulink) to verify correct operation of robot program; Consideration of good software design practices such as comments, naming conventions, design simplicity, modularity, portability, etc. 	25	
<i>Comments:</i> (see Software Design and Simulation Scoresheet)		
<ul style="list-style-type: none"> ▪ Safety Evidence that safety training occurred and safe practices were followed to prevent students' misuse of tools and other devices/equipment that may result in personal injury or damage to property 	20	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Support Documentation CAD/other drawings, photos, team organization, meeting minutes, test results, etc. that support the main document (max 20 double-sided pages) 	25	
<i>Comments:</i>		
OVERALL QUALITY AND COMPLETENESS OF NOTEBOOK (9 Points)		
<ul style="list-style-type: none"> ▪ Organization and appearance Table of contents, summary, page numbers, discussion of evaluation points, linkage to appendices 	30	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Adherence to specifications Standard binder, business font no smaller than 12 pt., double-spaced (single spaced ok in tables and outlines), 32 one-sided page limit for main section, 20 double-sided page limit for appendices, 1" margins, cover sheet and/or title page that identifies the school team name, teacher contact information, and team number. 	30	
<i>Comments:</i>		
<ul style="list-style-type: none"> ▪ Quality of content Well written descriptions, clear photo labels, lack of extraneous material such as community or promotional efforts, spirit development, team building, etc. 	30	
<i>Comments:</i>		
Total	300	
	<u>÷10</u>	<u>÷ 10</u>
Final score:	30	