



Item/Components	Score	Exceeds Requirements	Meets Requirements	Does not meet basic Requirements
1. Description of Invention and How it works (Orally and written in log, journal and/or display) Includes: a) Each part of invention b) How the invention works		5 points: <ul style="list-style-type: none"> • Very detailed and specific description • Evidence supports invention working • Student has detailed logbook 	3 points: <ul style="list-style-type: none"> • Clear description with some details • Evidence supports invention may work/partially works • Student logbook lacking details 	1 point: <ul style="list-style-type: none"> • Simple description with some gaps and not very clear • No Evidence that invention works • No student logbook
2. Problem Statement Includes: a) The problem or idea that led to the invention. b) The connection between the idea and the invention. c) Why is the invention useful? Who would benefit?		8 points: <ul style="list-style-type: none"> • Very detailed and specific description 	6 points: <ul style="list-style-type: none"> • Clear description with some details 	3 points: <ul style="list-style-type: none"> • Simple description with some gaps
3. Drawing Includes: a) All parts drawn and labeled b) Dimensions given for each part		5 points: <ul style="list-style-type: none"> • All parts drawn in detail and clearly labeled • Dimensions labeled for all parts 	3 points: <ul style="list-style-type: none"> • Most critical parts are drawn and clearly labeled • Dimensions are labeled for most critical parts 	0 point: <ul style="list-style-type: none"> • No drawing included
4. Materials Includes: All materials listed		3 points: <ul style="list-style-type: none"> • All materials are listed with specific description (e.g., size, quantity, shape, type, or brand etc.) 	2 points: <ul style="list-style-type: none"> • All materials listed 	1 point: <ul style="list-style-type: none"> • Some materials seem to be missing from the list
5. Research for Similar Inventions Includes:		12 points: <ul style="list-style-type: none"> • 3 required sources are 	8 points: <ul style="list-style-type: none"> • 3 required sources are 	4 points: <ul style="list-style-type: none"> • 2 or fewer sources are

<p>a) Must search for these 3 required sources: Google patents, business contact by phone or in person, and 3rd source of the student's choice</p> <p>b) What was the closest thing you found to your invention?</p> <p>c) Describe the details of what was discovered when you researched each source</p>		<p>listed (Google, business, 1 other)</p> <ul style="list-style-type: none"> Specifically names the closest thing to the invention found for each source Specific details of what was discovered for each source 	<p>listed (Google, business, 1 other)</p> <ul style="list-style-type: none"> Names some closest things to the invention for each source Lacks detail of what was discovered for each source 	<p>listed (Google, business, 1 other)</p> <ul style="list-style-type: none"> Does not name the closest things that were found Simple description of what was discovered with some gaps given for 2 or fewer of required sources
<p>6. Demonstrating Better, Unique, Different Think about the inventions you named as similar to yours in item #5. Describe how your invention is better, unique, or different. (orally or visually via log or displayed) Examples: *Shape *materials used *comfort *appearance *size *how it is used *durability * cost savings</p>		<p>12 points:</p> <ul style="list-style-type: none"> Very detailed and specific comparison to similar invention(s) given in #5 	<p>8 points:</p> <ul style="list-style-type: none"> Some details given about how the invention compares to similar invention(s) given in #5 Invention is compared to similar inventions. 	<p>4 points:</p> <ul style="list-style-type: none"> Some details given about how the invention is special
<p>7. Designing & Building Process Includes:</p> <ol style="list-style-type: none"> Design/planning phase Steps to construct the invention Works seems to be that of the student 		<p>12 points:</p> <ul style="list-style-type: none"> Very detailed and specific description including challenges, surprises, and successes that occurred Work is mainly that of the student 	<p>8 points:</p> <ul style="list-style-type: none"> Clear description including some details Work is partially that of the student 	<p>4 points:</p> <ul style="list-style-type: none"> Simple description including some gaps Work does not seem to be that of the student
<p>8. Testing with an Observer (orally or visually via log or displayed) Includes:</p> <ol style="list-style-type: none"> Number of times tested Names of observers—cannot be one of the inventors What happened during testing and how well the invention worked 		<p>5 points:</p> <ul style="list-style-type: none"> Tested 3 times or more Named more than one observer Very detailed and specific description of testing process 	<p>3 points:</p> <ul style="list-style-type: none"> Tested 2 times Named one observer Clear description with some details of testing process 	<p>1 points:</p> <ul style="list-style-type: none"> Tested 1 time or less No observers named Simple description with some gaps in relating the testing process

<p>9. Overall “Inventiveness” Rating The invention shows creativity in the following ways:</p> <ul style="list-style-type: none"> • Unique qualities related to resourcefulness, playfulness, or the invention’s “personality” • Original thinking • Original use of materials • Unique function/operation • Presentation (verbal skills, display board, log book,) 		<p>12 points:</p> <ul style="list-style-type: none"> • Creative in 4 or more of the ways listed 	<p>8 points:</p> <ul style="list-style-type: none"> • Creative in 2 or 3 of the ways listed 	<p>4 points:</p> <ul style="list-style-type: none"> • Creative in one of the ways listed
---	--	---	---	--