

SINGAPORE INVENTION CONVENTION JUDGING RUBRIC

CATEGORY: INVENTION PROCESS (P)





SINGAPORE

INVENTION
convention

PRESENTED BY



PRATT & WHITNEY

				
<p>IDENTIFY AND UNDERSTAND</p> <p>Identifies and explains the scope of the problem. Provides evidence the problem exists. Researches existing inventions</p>	<p>0 POINTS</p> <p>Lacking Detail or Coverage</p>	<p>5 POINTS</p> <p>Sufficiently covered in some parts but not others</p>	<p>7 POINTS</p> <p>Covered with sufficient detail</p>	<p>10 POINTS</p> <p>Covered with exemplary detail</p>
<p>IDEATE</p> <p>Develops ideas to arrive at one or more possible solutions. Provides evidence of iterative thinking in designs.</p>	<p>0 POINTS</p> <p>Lacking Detail or Coverage</p>	<p>5 POINTS</p> <p>Sufficiently covered in some parts but not others</p>	<p>7 POINTS</p> <p>Covered with sufficient detail</p>	<p>10 POINTS</p> <p>Covered with exemplary detail</p>
<p>DESIGN & BUILD A PROTOTYPE</p> <p>Articulates how the invention is intended to work. Explains materials selection and goal. Evidence of iteration in materials selection.</p>	<p>0 POINTS</p> <p>Lacking Detail or Coverage</p>	<p>5 POINTS</p> <p>Sufficiently covered in some parts but not others</p>	<p>7 POINTS</p> <p>Covered with sufficient detail</p>	<p>10 POINTS</p> <p>Covered with exemplary detail</p>
<p>TEST</p> <p>Presents evidence the prototype addresses the problem. Explains how the invention adds value compared to alternate solutions.</p>	<p>0 POINTS</p> <p>Lacking Detail or Coverage</p>	<p>5 POINTS</p> <p>Sufficiently covered in some parts but not others</p>	<p>7 POINTS</p> <p>Covered with sufficient detail</p>	<p>10 POINTS</p> <p>Covered with exemplary detail</p>
<p>INVENTION LOG</p> <p>Documents the inventor's thinking throughout the process. Includes:</p> <ul style="list-style-type: none"> • Research citations, experts consulted. • Design illustrations for each iteration, parts labelled, visually clear, descriptive text. • Test results 	<p>0 POINTS</p> <p>Lacking Detail or Coverage</p>	<p>5 POINTS</p> <p>Sufficiently covered in some parts but not others</p>	<p>7 POINTS</p> <p>Covered with sufficient detail</p>	<p>10 POINTS</p> <p>Covered with exemplary detail</p>

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CATEGORY: INVENTION IMPACT (I)

SINGAPORE

INVENTION
convention

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PRATT & WHITNEY

				
<p>VALUE PROPOSITION Identifies the solution. Recognizes the value over alternate solutions.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>
<p>ORIGINALITY Explains how the invention or innovation represents original creative thought. Presents evidence of research or seeking expert advice that determines the invention's originality.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>
<p>MARKET POTENTIAL Demonstrates the invention has marketable value.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>
<p>ENVIRONMENTAL & SOCIAL VALUE Evidence of empathy towards social condition, environmental impact. Shows evidence that the invention improves lives.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>

SINGAPORE INVENTION CONVENTION JUDGING RUBRIC

CATEGORY: COMMUNICATION (C)




SINGAPORE

INVENTION
convention

PRESENTED BY



PRATT & WHITNEY

				
<p>VIDEO PITCH Engages the audience. Communicates clearly. Projects confidence. Explains the invention process, impact, value. Demonstrates the prototype. Shares challenges encountered and methods to overcome them.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>
<p>PROTOTYPE (MODEL) Demonstrates content that is well-organised and laid out. Identifies supporting information relevant to the invention process. May highlight graphs, data, results, research citations, acknowledge experts consulted.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>
<p>DISPLAY BOARD, OR SLIDES IF ONLINE JUDGING The content is well-organised and laid out with supporting information about the invention process.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>
<p>LIVE PITCH (FOR INVENTORS P3 AND UP) Communicates clearly. Demonstrates organized thought. Demonstrates confidence during Q&A.</p>	<p>0 POINTS Lacking Detail or Coverage</p>	<p>5 POINTS Sufficiently covered in some parts but not others</p>	<p>7 POINTS Covered with sufficient detail</p>	<p>10 POINTS Covered with exemplary detail</p>