

Step 1 Scoring Guidelines

Fluency: Number of relevant challenges / Originality: One bonus point may be awarded to any Relevant challenge that shows unique creativity or insight in to the Future Scene, with a maximum of 5.										
Flexibility: Measures the number of different categories in Relevant challenges	1. Arts & Aesthetics	4. Communication	7. Economics	10. Ethics and Morality	13. Miscellaneous 1	16. Psychological Health	19. Social Relationships			
	2. Basic Needs	5. Culture & Religion	8. Education	11. Government & Politics	14. Miscellaneous 2	17. Recreation	20. Technology			
	3. Business & Commerce	6. Defense	9. Environment	12. Law & Justice	15. Physical Health	18. Science	21. Transportation			
Clarity: Tells what the concern is, why it is a concern, and relates to the Future Scene	Hard to determine what challenge is; cause-effect reasoning may be absent or incorrect			Most convey basic idea; some lack detail or wordiness confuses the idea; assumptions made; cause-effect reasoning vague or takes leaps			Clear explanations based on FS; most include detail; most cause-effect relationships make sense		Well written; clear descriptions with detail; logical cause-effect relationships	
	1	2	3	4	5	6	7	8	9	10
Insight: development of the idea & quality of thinking; understanding & perceptiveness of potential implications from the FS	Limited extrapolation from FS; cites many challenges already presented in FS			Fair analysis of FS; cites mostly obvious challenges from FS; deeper thinking limited			Good understanding of the FS; some evidence of deeper thinking		Demonstrates meaningful, in-depth understanding of potential implications emerging from the FS	
	1	2	3	4	5	6	7	8	9	10

	Rel	Category	O	M/NR/D/B	Feedback on Step 1 Challenges	Research shown
1	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
2	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
3	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
4	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
5	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
6	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
7	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
8	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
9	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
10	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
11	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
12	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
13	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
14	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
15	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
16	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
	0	0	0			

Relevant – challenge has possibility of occurring
Maybe – challenge needs additional information to be Relevant
Not Relevant – challenge idea not related to FS
Duplicate – statement duplicates or is very similar to another challenge
Solution – statement is a solution to a challenge
Blank – no student response provided

Step 1 Scores		
Fluency	1-16	0
Flexibility	1-16	0
Originality		0
Clarity	1-10	
Insight	1-10	
Research Applied	1-5	
Creative Strength	1-5	
Futuristic Thinking	1-5	
Step 1 Total Points		0

Step 1 Comments:

Research Applied: Uses appropriate research & shows knowledge of issues & trends as related to the FS	Includes minimal or no evidence of research, terms, concepts, issues & trends	Some evidence of relevant research, terms, concepts, issues & trends	Integrates in-depth, relevant research, terms, concepts, issues & trends
	1	2	3
	4	5	
Creative Strength: Skillfully uses productive, clever & innovative thinking	Includes minimal evidence of creative thinking	Some evidence of creative thinking; goes beyond the norm at times	Integrates innovative and/or insightful ideas that go beyond the ordinary
	1	2	3
	4	5	
Futuristic Thinking: Utilizes knowledge of future trends & predictions as related to the FS	Includes minimal or unrelated evidence of trends or technology	Some evidence of futuristic ideas; goes beyond the norms at times	Integrates purposeful, futuristic concepts, showing how ideas impact the future
	1	2	3
	4	5	

Step 2 Scoring Guidelines

Condition Phrase (C)	Missing 0	Present but does not use accurate info or reasonable assumptions, or written as entire challenge 2	Present & uses accurate info but does not relate to KVP 4	Relates to KVP & uses accurate information from FS/research 6
Stem & Key Verb Phrase (KVP)	Missing 0	Present but has two verbs/verb phrases 2	Present but has 2 objects/modifiers 4	Present and contains a single active verb or verb phrase 6
Purpose (P)	Missing 0	Present but has two verbs/verb phrases or repeats KVP 2	Present but has 2 objects/modifiers, or relationship to KVP unclear 4	Present and singular with logical relation to KVP 6
Future Scene Parameters	All missing 0	1 parameter present 2	2 parameters present 4	Topic, place, time all present 6

Significance: Assesses the importance of the UP to the Future Scene	Issue not related to the FS 2 4 6	Minor issue from FS or multiple issues 8 10 12	Appropriate issue related to FS with ties to topic 14 16	Important issue related to FS with meaningful connection to topic 18 20
Scope: Measures the manageability and focus of the UP	Weak relationship to FS so may be ineffective; Condition Phrase, KVP and/or Purpose may be missing 2 4 6	UP overly broad or narrow; multiple issues in KVP or Purpose confuse focus; Purpose may be missing 8 10 12	Consideration given to focus & manageability; some positive impact on FS 14 16	Identifies small enough segment of the FS to be manageable but sizeable enough to be impactful 18 20
Clarity: Examines effective communication of the intent of the UP	Difficult to determine intent of UP 2 4 6	Multiple issues in KVP or Purpose reduce clarity; connections between Condition Phrase, KVP and/or Purpose vague/unclear 8 10 12	Effort made to clearly define action & explain its importance 14 16	UP clearly defines action & communicates its importance effectively 18 20

Condition Phrase:

Stem:

"How might we..." OR "In what ways might we..."

Key Verb Phrase:

Purpose:

Parameters:

Topic: Place: Time:

Step 2 Scores		
Condition Phrase	0-6	<input style="width: 30px;" type="text"/>
Stem & KVP	0-6	<input style="width: 30px;" type="text"/>
Purpose	0-6	<input style="width: 30px;" type="text"/>
Parameters	0-6	<input style="width: 30px;" type="text"/>
Significance	2-20	<input style="width: 30px;" type="text"/>
Scope	2-20	<input style="width: 30px;" type="text"/>
Clarity	2-20	<input style="width: 30px;" type="text"/>
Step 2 Total Points		0

Step 2 Comments:

Step 3 Scoring Guidelines

Fluency: Number of relevant solutions / Originality: One bonus point may be awarded to any Relevant solution that shows unique creativity or insight in to the Future Scene, with a maximum of 5.									
Flexibility: Measures the number of different categories in Relevant solutions	1. Arts & Aesthetics	4. Communication	7. Economics	10. Ethics and Morality	13. Miscellaneous 1	16. Psychological Health	19. Social Relationships		
	2. Basic Needs	5. Culture & Religion	8. Education	11. Government & Politics	14. Miscellaneous 2	17. Recreation	20. Technology		
	3. Business & Commerce	6. Defense	9. Environment	12. Law & Justice	15. Physical Health	18. Science	21. Transportation		
Elaboration/Clarity: Has relevant who, what, why, and how elements; measures clarity and conciseness of writing	Not enough detail/elaboration to convey meaning of solution ideas, OR excessive detail obscures solutions		Most solutions convey basic idea; some lack detail/elaboration OR too much detail confuses solution ideas; WHO's random or repetitive		Appropriate explanations with some detail/elaboration; some WHO's not logical/appropriate		Clear, concise descriptions with adequate details/elaboration; most include logical who, what, how/why		
	2	4	6	8	10	12	14	16	18

	Rel	Category	O	M/NR/D/B	Feedback on Step 3 Solutions	Research shown
1	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
2	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
3	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
4	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
5	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
6	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
7	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
8	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
9	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
10	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
11	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
12	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
13	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
14	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
15	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
16	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
0	0	0				

Relevant – solution idea addresses KVP and clearly supports Purpose
Maybe – more details needed; unclear relation to KVP/Purpose; feasibility questionable
Not Relevant – solution idea needs additional information to be relevant
Duplicate – solution duplicates or is very similar to another solution
Blank – no student response provided

Step 1 Scores		
Fluency	1-16	0
Flexibility	1-16	0
Elaboration/Clarity	2-20	
Originality		0
Research Applied	1-5	
Creative Strength	1-5	
Futuristic Thinking	1-5	
Step 3 Total Points		0

Step 3 Comments:

Research Applied: Uses appropriate research & shows knowledge of issues & trends as related to the FS	Includes minimal or no evidence of research, terms, concepts, issues & trends 1 2	Some evidence of relevant research, terms, concepts, issues & trends 3 4	Integrates in-depth, relevant research, terms, concepts, issues & trends 5	
Creative Strength: Skillfully uses productive, clever & innovative thinking	Includes minimal evidence of creative thinking 1 2	Some evidence of creative thinking; goes beyond the norm at times 3 4	Integrates innovative and/or insightful ideas that go beyond the ordinary 5	
Futuristic Thinking: Utilizes knowledge of future trends & predictions as related to the FS	Includes minimal or unrelated evidence of trends or technology 1 2	Some evidence of futuristic ideas; goes beyond the norms at times 3 4	Integrates purposeful, futuristic concepts, showing how ideas impact the future 5	

Step 4 Scoring Guidelines

<p>Correctly Written Requirements: includes superlative, single dimension, worded in desired direction</p>	<p>Two points are awarded for each correctly written criterion. Number of correctly written criteria: 0 1 2 3 4 5 Number of points awarded: 0 2 4 6 8 10</p>					
<p>Applicability to the Underlying Problem All criteria are scored for applicability, even if they are not correctly written.</p>	<p><u>G - Generic</u> - A criterion that could be applied to nearly any UP. (2 points) <u>M - Modified</u> - A generic criterion concept augmented with stakeholders or details from the FS. (4 points) <u>T - Targeted</u> - A criterion that applies only to this UP, FS, and/or topic. (6 points)</p>		<p><u>NA - Not Applicable</u> - A criterion that is not useful for evaluating solutions to this UP. (0 points) <u>D - Duplicate</u> - A criterion concept already presented. (0 points) <u>B - Blank</u> - No student response provided. (0 points)</p>			

	Correctly Written	Applicability	Applicability Points	Feedback on Step 4 Criteria
1	<input type="checkbox"/>			
2	<input type="checkbox"/>			
3	<input type="checkbox"/>			
4	<input type="checkbox"/>			
5	<input type="checkbox"/>			
	0	0	0	

Step 4 Score		
Correctly Written	0-10	0
Applicability	0-30	0
Step 4 Total Points		0

Step 4 Comments:

Step 5 Scoring Guidelines

<p>Grid Accuracy: Measures the accuracy in completion of the Evaluation Matrix (grid)</p>	<p>Inaccurate Application: Displays each row with the same number, ignoring problem solving process; solution with highest total not used as main focus of Action Plan; etc.</p>	<p>4+ errors 10</p>	<p>1-3 errors 15</p>	<p>Matrix is complete and correctly added 20</p>
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Step 5 Comments:

Step 5 Score		
Grid Accuracy	5-20	
Step 5 Total Points		0

Step 6 Scoring Guidelines

Criteria for Action Plan: Measures the degree to which the criteria are addressed in the AP	AP does not address the criteria 2	AP's connection to criteria is minimal or unclear 4	AP makes some valid connections to criteria 6 8	AP addresses criteria in a convincing manner 10
Completeness: Considers the extent to which the AP is thoughtfully elaborated	Details are minimal; rewrite of Step 3 solution idea 2 4	Provides some considerations needed to carry out AP 6 8 10	Contains many elements of AP implementation 12 14 16	Presents organized, comprehensive explanation of process needed to achieve AP 18 20
Clarity: Measures clearness and conciseness of expression; effective communication of ideas	Overall AP difficult to understand; wordiness often confuses main idea and/or information often sketchy/vague, 2 4	Fair; writing inconsistent; may be difficult to understand in places; takes leaps in reasoning 6 8 10	Good; contains mostly clear & concise descriptions 12 14 16	Excellent; clear, concise expression of ideas throughout AP 18 20
Relationship to UP: Assesses the extent to which the AP solves the UP	AP is unrelated to UP 2	AP addresses some aspects of UP 4	AP adequately considers KVP and Purpose of UP 6 8	AP effectively responds to KVP and Purpose of UP 10
Impact on FS: Measures the positive effect of the AP on the FS	AP has negative or no impact on FS 2	AP had minimal positive impact on FS 4	AP has moderate positive impact on FS 6 8	AP has strong positive impact on FS 10
Humaneness: Measures the productive, positive potential of the AP	Negative or destructive AP 2	AP is neutral; neither positive nor negative 4	Constructive potential evident 6 8	AP is positive and constructive 10

Research Applied: Uses appropriate research & shows knowledge of issues & trends as related to the FS	Includes minimal or no evidence of research, terms, concepts, issues & trends 1 2	Some evidence of relevant research, terms, concepts, issues & trends 3 4	Integrates in-depth, relevant research, terms, concepts, issues & trends 5
Creative Strength: Skillfully uses productive, clever & innovative thinking	Includes minimal evidence of creative thinking 1 2	Some evidence of creative thinking; goes beyond the norm at times 3 4	Integrates innovative and/or insightful ideas that go beyond the ordinary 5
Futuristic Thinking: Utilizes knowledge of future trends & predictions as related to the FS	Includes minimal or unrelated evidence of trends or technology 1 2	Some evidence of futuristic ideas; goes beyond the norms at times 3 4	Integrates purposeful, futuristic concepts, showing how ideas impact the future 5

Step 6 Scores		
Criteria for AP	2-10	
Completeness	2-20	
Clarity	2-20	
Relationship to UP	2-10	
Impact on FS	2-10	
Humaneness	2-10	
Research Applied	1-5	
Creative Strength	1-5	
Futuristic Thinking	1-5	
Step 6 Total Points		0

Step 6 Comments:

Total Booklet Score	
Team Code	
Total Points	Rank in Sample
0	1

Overall Comments: