

Appendix A:

Literature Evaluating One or More MAKE Evaluation Domain

Author	Research Title	Evaluation Domain
⁹	'It's like you're actually playing yourself': Development and preliminary evaluation of 'Green Acres High', a serious game-based primary intervention to combat adolescent dating violence.	Attitude
³²	Game-Based Intervention: A technical tool for social workers to combat adolescent dating violence	Engagement
¹⁰	Adolescents' pregnancy prevention by health education computer games: Computer-assisted instruction of knowledge and attitude.	Attitude Knowledge
³³	Serious game for relationships and sex education: Promoting discourse on pressure and coercion in adolescent relationships.	Engagement
¹¹	Student and teacher perceptions of game plan: A middle-level sex education programme.	Attitude
³⁴	Computer-assisted instruction: An effective instructional method for HIV prevention education.	Motivation Knowledge
³⁵	Evaluation ability assessment of adolescent pregnancy prevention and sexual health program 'Be Proud! Be Responsible! In New York State.	Engagement
¹²	Promoting sex education among teenagers through an interactive game: Reasons for success and implications.	Attitude Knowledge
¹³	Measuring the effectiveness of teaching sex education in Nepalese secondary schools: An outcome from a randomized controlled trial.	Attitude Engagement Knowledge

Appendix B:

Rotated Component Matrix for the Motivation

Component	Motivation statement	1	2	3	4
Attention	There was something interesting at the beginning of the instructional method that got my attention.	0.846			
	The teaching approach used is eye-catching.	0.721			
	The quality of the activity in the teaching method holds my attention.	0.703			
	The design of the teaching method looks appealing.	0.699			
Relevance	I could relate the content taught in this method to things I have thought about in my own future life.		0.857		
	The content taught through this approach will be useful during my adolescent period.		0.854		
	The content and instructional style convey the impression that the course is worth knowing.		0.832		
	The content in the teaching approach will be useful to me.		0.771		
Confidence	I could not really understand quite a bit of the material taught using this method.			0.881	
	The exercises in this teaching approach were too easy.			0.856	
	The good organization of the content helped me be confident that I would learn better with this approach.			0.839	
	The teaching approach was more difficult to understand than I would like it to be.			0.820	
Satisfaction	I really enjoyed learning with this teaching method.				0.827
	It was a pleasure to learn sexual health behavior through this pedagogy.				0.812
	Completing the exercise in this teaching method gave me a satisfying feeling of accomplishment.				0.752
	I learned some things that were surprising or unexpected with this teaching method.				0.730

Appendix C:

Rotated Component Matrix for Attitude

Component	Attitude statement	1	2
Affective Attitude	The instructional approach increases my participation in sexual health education.	0.900	
	I feel happy to be taught sexual health education through this teaching method.	0.892	
	The teaching method used makes sexual health education more interesting.	0.890	
	The teaching method I experienced is appropriate for the delivery of sexual health skills.	0.885	
	The teaching method used is ideal for sexual health education.	0.597	
Cognitive Attitude	The teaching method I experienced enhanced my understanding of sexual health behaviour issues.		0.859
	The instructional approach explained the sexual health learning materials very well.		0.858
	I found the instructional method worthwhile in the sexual health course.		0.854
	The method of instruction used in the sexual health course I attended was interesting.		0.803
	The teaching method used aroused interest in sexual health education programs.		0.708

Appendix D:

Rotated Component Matrix for the Knowledge

Component	Knowledge statement	1	2	3
Importance of knowledge	The teaching approach enhanced my knowledge about STDs, STIs and HIV/AIDS.	0.881		
	I gained knowledge about reproductive health through this teaching method.	0.869		
	I gained knowledge about sexual decision-making through this method of instruction.	0.825		
	The instructional method used helped me learn about good manners and personal hygiene.	0.746		
Application of knowledge	I will apply the sexual coercion and assault knowledge taught through this approach.		0.895	
	The topic of responsible sexual behavioural practices seems very relevant as taught by this approach.		0.887	
	The method of teaching helped me learn about dealing with peer pressure during adolescence.		0.793	
Effectiveness of knowledge	The method of instruction is very active and it helped my understanding of the importance of abstinence.			0.870
	The teaching approach is very effective because it extended my existing understanding of the course.			0.868
	This teaching method is very effective in imparting knowledge in sexual health education programmes.			0.734

Appendix E:

Rotated Component Matrix for the Engagement

Component	Engagement statement	1	2
Emotional engagement	In the teaching method I attended, it was very easy to understand the instructional content.	0.928	
	I have been effective in this course because the method of instruction was engaging.	0.924	
	The teaching method used facilitated my active participation in the subject taught.	0.923	
	The method of instruction used caught my attention during the course.	0.869	
	This method allowed my expression of thoughtful ideas relevant to the course.	0.823	
	The instructional approach used during the course made me interested.	0.778	
Cognitive engagement	I demonstrated my interest and enthusiasm as well as use of positive humour during the course.		0.822
	This teaching method is relevant for engaging students in the sexual health education course.		0.809
	The teaching strategy enhanced my engagement in the course.		0.779
	I focused on the learning activities given in this teaching approach.		0.742

Appendix F:

MAKE Evaluation: Survey Questionnaire

Measure	SD	D	N	A	SA
MOTIVATION: Attention Statement					
There was something interesting at the beginning of the instructional method that got my attention.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching approach used is eye catching.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The quality of activity in the teaching method holds my attention.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The design of the teaching method looks appealing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTIVATION: Relevance Statement					
I could relate the content taught through this method to things I have thought about in my own future life.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The content taught through this approach will be useful during my adolescent period.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The content and instructional style convey the impression that the course is worth knowing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The content in the teaching approach will be useful to me.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTIVATION: Confidence Statement					
I could really understand quite easily of the material taught through this teaching method.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The exercises in this teaching approach were too easy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The good organization of the content helped me be confident that I would learn better in this approach.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching approach was simpler to understand than I would like for it to be.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MOTIVATION: Satisfaction Statement					
I really enjoyed learning with this teaching method.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
It was a pleasure to learn sexual health behaviors through this pedagogy.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completing the exercise in this teaching method gave me a satisfying feeling of accomplishment.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I learned somethings that were surprising or unexpected with this teaching method.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ATTITUDE: Affective Attitude Statement					
The instructional approach increases my participation in the sexual health education.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I feel happy to be taught sexual health education through this teaching method.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching method used makes sexual health education more interesting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Efficacy of Learning and Instruction of Sexual Health Literacy

Measure	SD	D	N	A	SA
The teaching method I attended is appropriate for the delivery of sexual health skills.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching method used is an ideal for sexual health education.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ATTITUDE: Cognitive Attitude Statement					
The teaching method I attended enhanced my understanding of sexual health behaviour issues.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The instructional approach explained the sexual health learning materials very well.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I found the instructional worthwhile in the sexual health course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The method of instruction used in the sexual health course I attended was interesting.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching method used arouses interest in sexual health education program.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KNOWLEDGE: Importance of Knowledge Statement					
The teaching approach enhanced my knowledge about STDs, STIs, and HIV/AIDS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I gained knowledge about reproductive health through this teaching method.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I gained knowledge about sexual decision-making through the method of instruction.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The instructional method used helped me gain knowledge about good manners and personal hygiene.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KNOWLEDGE: Application of Knowledge Statement					
I will apply the sexual coercion and assault knowledge taught through this approach.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The topic of responsible sexual behavioral practices taught in this approach seems very relevant.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The method of teaching helped me gain knowledge on dealing with peer pressure during adolescence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
KNOWLEDGE: Effectiveness of Knowledge Statement					
The method of instruction used is very active as it helped my understanding of the importance of abstinence.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching approach is very effective as it extended my existing understanding of the course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
This teaching method is very effective in imparting knowledge in sexual health education programs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENGAGEMENT: Emotional Engagement Statement					
The teaching method I attended it was very easy to understand the learning contents.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I have been effective in this course as the method of instruction was engaging.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching method used facilitates my active	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Efficacy of Learning and Instruction of Sexual Health Literacy

Measure	SD	D	N	A	SA
participation in the subject taught.					
The method of instruction used caught my attention during the course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
This method allowed my expression of thoughtful ideas relevant to the course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The instructional approach used during the course made me interested.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ENGAGEMENT: Cognitive Engagement Statement					
I demonstrated my interest and enthusiasm as well as use of positive humor during the course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
This teaching method is relevant for engaging students in the sexual education course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The teaching strategy used enhanced my engagement in the course.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I focused on the learning activity given in this teaching approach.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Notes:

- SD = Strongly Disagree (1 point);
- D = Disagree (2 points);
- N = Neutral (3 points);
- A = Agree (4 points); and
- SA = Strongly Agree (5 points).

This survey instrument was adapted from various prior studies²⁵⁻²⁷ to reflect the research objectives.

References

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