

## Appendix D

### Quality criteria to evaluate primary studies.

Quality Criteria to evaluate primary studies

ID	Quality Criteria – Quality of primary studies	Score		
		Yes (1)	Partly (0,5)	No (0)
QC1	Does the primary study clearly describe educational goals?	If the study clearly describe educational goals.	If the study partly describe educational goals, omitting some goals.	If the study does not describe the educational goals.
QC2	Has the research methodology been appropriate to address the research objectives?	If the methodology is appropriate to achieve research objectives.	If the methodology is not totally clear.	If the methodology has problems or is not described.
QC3	The primary study is proper referenced?	If the references are in agreement with the area of the study and are relevant.	If the references are partly in agreement with study.	If the study has insufficient references and irrelevant ones.
QC4	Has the proposed game been tested with students?	If the study tested the proposed game with students.	For this QC we consider only yes or no.	If the study does not tested the proposed game with students.
QC5	Was there an appropriate assessment of the data collected with the use of the game by the students?	If the study conduct a quantitative analysis with the collected data.	If the study conduct a qualitative analysis with the collected data.	If the study does not assess the data collected with students.
QC6	Does the work present results consistent with its educational objectives?	If the study show results with consistent data supporting educational objectives.	If the study partly described results to support educational objectives.	If the study does not show results consistent with educational objectives.
QC7	Do the authors compare their proposals with the work of other authors?	If the study compare the proposed game with other games in the same area of study.	For this QC we consider only yes or no.	If the study does not compare the proposed game with other games in the same area of study.

