

Table S8. Post-intervention appraisal and civic orientation

Outcome	Items	n	α post	Post M $\pm$ SD	Diff. from 3 [95% CI]	Test	p	dz	Interpretation
Civic responsibility and participation	12	52	0.89	4.25 $\pm$ 0.56	1.25 [1.09, 1.41]	one-sample t(51) = 16.02 vs. 3	< .001	dz = 2.22 (large)	Above neutral midpoint; large effect
Pedagogical/game appraisal	10	52	0.89	4.08 $\pm$ 0.64	1.08 [0.90, 1.26]	one-sample t(51) = 12.11 vs. 3	< .001	dz = 1.68 (large)	Above neutral midpoint; large effect

Note: The Items column indicates the number of items included in each composite outcome; n indicates the number of participants who completed the delayed post-test. α post refers to Cronbach's alpha in the post-test. Diff. from 3 indicates the mean difference from the neutral midpoint of the 1–5 Likert scale. dz refers to Cohen's one-sample effect size. Higher scores indicate more favourable post-intervention responses.