

Evaluation Criteria for Common Math Edtech Ingredients

Evaluative Element	Low	Medium	High
Problems	Routine Multiple Choice	Open-ended	Non-routine
Virtual Manipulatives	NONE	Visual image or basic manipulative	Robust and novel virtual math manipulative
Feedback Animations	Correct / Incorrect	Hint with generic text, image, or animation	Rich animation that is unique to student input
Gamification	Disconnected from the task (promotes extrinsic motivation)	Aligned to task	Seamlessly integrated into the task (promotes intrinsic motivation)