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Evidence-Centered Design: Learning Outcomes of TEI Types

Evidence-centered design (ECD) is an approach to assessment development that emphasizes meaningful measures of students' mastery of the content and skills they have learned. Technology-enhanced items (TEIs) can help teachers design assessments that more effectively target the desired learning outcomes. The following chart suggests learning outcomes that are particularly appropriate for common TEI types; relevant Common Core State Standards are also provided. (These suggestions represent only a fraction of the possible connections between learning outcomes and TEI types.)

Matching	Suggested Outcomes	Students will be able to (SWBAT) identify relationships; make connections between concepts
	Example	<u>CCSS.MATH.CONTENT.7.RP.A.2</u> Recognize and represent proportional relationships between quantities.
Fill in the Blank	Suggested Outcomes	SWBAT identify and correct errors; use language grammatically; solve word problems
	Example	<u>CCSS.ELA-LITERACY.L.3.1.D</u> Form and use regular and irregular verbs.
Dropdown	Suggested Outcomes	SWBAT apply mathematical concepts to complete expressions; use context clues to complete sentences
	Example	<u>CCSS.MATH.CONTENT.HSA.SSE.B.3</u> Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.
Evidence-Based Selected Re- sponse (EBSR)	Suggested Outcomes	SWBAT support arguments and solutions to problems; provide evidence for claims
	Example	<u>CCSS.ELA-LITERACY.RI.6.1</u> Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.



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Drag and Drop	Suggested Outcomes	SWBAT compare and contrast ideas; categorize objects; complete a diagram
	Example	<u>CCSS.MATH.CONTENT.8.F.A.2</u> Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).
Select Text	Suggested Outcomes	SWBAT identify textual elements such as figurative language, main ideas, and supporting details; locate errors in mathematical proofs
	Example	<u>CCSS.ELA-LITERACY.W.8.2.B</u> Develop the topic with relevant, well-chosen facts, definitions, concrete details, quotations, or other information and examples.
Hotspot	Suggested Outcomes	SWBAT analyze imagery; interpret a diagram
	Example	<u>CCSS.ELA-LITERACY.RL.9-10.7</u> Analyze the representation of a subject or a key scene in two different artistic mediums, including what is emphasized or absent in each treatment (e.g., Auden's "Musée des Beaux Arts" and Breughel's Landscape with the Fall of Icarus).
Object Creation (e.g., Graph, Number Line)	Suggested Outcomes	SWBAT draw an object; create a diagram; plot data
	Example	<u>CCSS.MATH.CONTENT.4.G.A.1</u> Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.
Stimulus with Audio or Video	Suggested Outcomes	SWBAT evaluate media; compare and contrast interpretations of a text
	Example	<u>CCSS.ELA-LITERACY.RL.11-12.7</u> Analyze multiple interpretations of a story, drama, or poem (e.g., recorded or live production of a play or recorded novel or poetry), evaluating how each version interprets the source text. (Include at least one play by Shakespeare and one play by an American dramatist.)



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