

High-Impact Approaches at Each Phase of Learning

Numbers updated to reflect 2022 Visible Learning database

Surface Learning		Deep Learning		Transfer of Learning	
Strategy	ES	Strategy	ES	Strategy	ES
Wide reading (exposure to reading)	0.43	Self-questioning	0.48	Extended writing	0.44
Morphological instruction	0.53	Multiple representations	0.60	Peer tutoring	0.51
Rapid Automatized Naming	0.53	Self-questioning	0.59	Goal-setting	0.51
Comprehension strategy instruction	0.54	Close reading (study skills)	0.63	Synthesizing information across texts	0.63
Phonics instruction	0.54	Advance organizers	0.63	Problem-solving teaching	0.67
Direct instruction	0.59	Concept mapping	0.64	Formal discussions (e.g., debates)	0.82
Note-taking	0.59	Metacognitive strategy instruction	0.69	Transforming conceptual knowledge	0.84
Vocabulary instruction	0.63	Planning and Predicting	0.76	Organizing conceptual knowledge	0.85
Annotation (study skills)	0.63	Reciprocal Teaching	0.74	Identifying similarities and differences	1.32
Spaced practice	0.65	Class discussion	0.82		
Leverage prior knowledge	0.65	Organizing and transforming notes	0.85		
Summarizing	0.74	Cooperative learning 0.45			
Repeated reading	0.75				
Phonological awareness instruction	0.75				
Mnemonics	0.80				
Small-group learning 0.47					
Student-teacher relationships 0.47					
Reading and writing across the curriculum 0.49					
Setting learning goals 0.51					
Feedback 0.62					
Challenge (not too hard, not too boring) 0.74					
Teacher clarity 0.84					
Success criteria 0.88					
Teacher credibility 1.09					
Jigsaw method 1.20					
Collective teacher efficacy 1.39					
Assessment-capable learners 1.44					

Source: <https://www.visiblelearningmetax.com/>

