	Anchored instruction	SKI	LfU	TGEM
Goal	Students to become independent	Aid in student understanding of	Foster deep and robust conceptual	Enrich students' mental models
	thinkers and learners. Learn to ID	complex phenomena,	understanding that students can	through teacher designed
	and define issues and problems on	interconnection of ideas, and	draw on to create explanations,	classroom inquiries
	their own	application of these concepts into	make predictions and argue from	
		new phenomena or problems	evidence	
Theoretical	Based on generative learning	- based on knowledge integration	- based on Learning cycle with	- mental model theory
concepts,	- situating instruction in	framework	emphasis on application of	- model based learning
framework,	meaningful problem-solving	- make learning accessible	knowledge	- generate, evaluate, modify
design	contexts	- make thinking visible (inquiry	- 3 step process: motivation,	-TPCK
	- cooperative learning setting	maps, visualizations)	knowledge construction,	- Places importance on teacher
	- scaffolding	- learn from others	refinement	student and student-student
	- video based format	- promote autonomy	- Motivation $\rightarrow$ create demand,	interactions
	- narrative with realistic problem		elicit curiosity	
	- generative format		- Construct $\rightarrow$ observe,	
	- embedded data design		communication	
	- problem complexity		- refine $\rightarrow$ reflect, apply	
	- pairs of related adventures		- inquiry based pedagogy	
Role of teacher	- facilitator	- facilitator	- Teacher is integral in every step	- Teacher designed classroom
	- provide guidance (scaffolding)	- can focus on groups that are	of this process, particularly with	inquiry
	and as students get used to this	struggling	providing explanations of	- Provides guidance in inquiry and
	method, decrease degree of		relationships that were uncovered	background information
	scaffolding		by students during inquiry	
Role of	- presentation of information in a	- adaptive scaffolding	- creates motivation	- computer simulation
technology	motivating way	- visualizations of phenomena	- elicits curiosity (interactive	- data representation
	- easier to search for embedded	- visualizations of ideas to allow	media, simulation)	- data evaluation and modification
	data	teacher to gauge student	- construct knowledge with use of	
	- helpful for poor readers	understanding	investigation /simulation/reference	
			tools	
			- refines knowledge through	
			recording of student activities and	
			ideas, collaboration and	
			presentation tools and allows	
			students to design or construct	
			artifacts for application of	
			knowledge	