

	Anchored Instruction	SKI-WISE	Learning for Use	T-GEM
Key takeaway point and aims	<ul style="list-style-type: none"> -Students need opportunities to apply their conceptual skills at a deeper level -Develop independent thinkers who can identify a problem on their own -Uses real life problem-solving situations 	<ul style="list-style-type: none"> -Online interactive learning environments that are customisable by teachers to help fit their class composition -Create lifelong learners -Make Science accessible 	<p>Three phase design</p> <ol style="list-style-type: none"> 1. Motivate –<i>Elicit curiosity</i> 2. Construct - <i>Direct experience with content</i> 3. Refine - <i>Apply knowledge and reflect</i> 	<p>Three step procedure</p> <ol style="list-style-type: none"> 1. Generate 2. Evaluate 3. Modify <ul style="list-style-type: none"> -develop conceptual understanding by comparing relationships -deepen inquiry skills
Student engagement	<ul style="list-style-type: none"> -Students' identity problem and apply knowledge to solve issue -Attempt the problem from multiple approaches -Work collaboratively to find solution 	<ul style="list-style-type: none"> -Engage with interactive online platform -Take on board immediate feedback given 	<ul style="list-style-type: none"> -Become curious and engaged with topic -Construct knowledge model -Further refine idea 	<ul style="list-style-type: none"> -Students to work independently or collaboratively to generate hypothesis -test hypothesis -modify idea
Teacher role	<ul style="list-style-type: none"> -To provide real life situations and resources -To scaffold and support as needed 	<ul style="list-style-type: none"> -Choose online learning environment -Guide students -Keep students on tasks 	<ul style="list-style-type: none"> -Support and scaffold environments and activities that elicit curiosity 	<ul style="list-style-type: none"> -not to provide answers! -allow students to make mistakes
How can I use this in my classroom? (Ideas generated by myself and from reading the blog posts of others)	<ul style="list-style-type: none"> -Find videos like the Jasper series -Create my own videos that mirror this effect -Escape room type scenarios 	<ul style="list-style-type: none"> -Many pre-made WISE projects that teachers can edit/adapt to for own use -Students could work at own pace so very adaptable 	<ul style="list-style-type: none"> -Beneficial to increase cross curricular approaches -Comparing two sets of data 	<ul style="list-style-type: none"> -Using PhET simulations to evaluate and modify knowledge