Computer Science and Design Thinking

Core Ideas	Performance Expectations	Grade 6	Grade 7	Grade 8
-Computer models can be used to simulate events, examine theories and inferences or make predictions.	8.1.8.DA.6: Analyze climate change computational models and propose refinements.		**Unit- Maintaining Biodiversity and Climate Change** Ecology Lab - Predator Prey Interactions https://www.learner.org/wp-content/interactive/envsci/ecology/ecology.html Sea Level Rise Lesson Sea Level Rise Computer modeling / simulation Climate time machine	
-Resources need to be utilized wisely to have positive effects on the environment and society. -Some technological decisions involve trade-offs between environmental and economic needs, while others have positive effects for both the economy and environment.	8.2.8.ETW.4: Compare the environmental effects of two alternative technologies devised to address climate change issues and use data to justify which choice is best.		**Unit- Maintaining Biodiversity and Climate Change** Climate Time Machine - https://climate.nasa.gov/interactives/climate-time-machine/	