Science and Global Issues: Biology

Unit Title[1]	Core Science Content	Estimated # of classes[2]
A Sustainability	**Unit Issue:** *The ways that humans interact with the environment can cause dramatic changes over time.* **Overarching questions/Suggested Driving Question:** *How do humans affect the environment over time?*	*8 - 14 (2 - 3 weeks)*
B Ecology	**Unit Issue:** *People rely on natural resources, including fish, for many reasons including food, yet many fisheries are no longer sustainable.* **Overarching questions/Suggested Driving Question:** *How can we use our knowledge about ecology to make informed decisions about managing fisheries to be more sustainable?* **Biology Common Assessment 1: Activity 5**	*29 - 45 (6 - 9 weeks)*
C Cells: Improving Global Health	**Unit Issue:** *Human health is increasingly subject to emerging global patterns, including extreme heat events, changes in the frequency of disease, and climate effects on the food supply.* **Overarching questions/Suggested Driving Question:** *What are the challenges to human health in a changing world?*	*26 - 40 (6 - 8 weeks)*
D Genetics	**Unit Issue:** *People rely on genetically engineered crop plants to maintain a global food supply, but the use of this technology can impact sustainability.* **Overarching questions/Suggested Driving Question:** *How do genetically engineered crops affect the sustainability of food production?*	*29 - 42 (6 - 9 weeks)*
E Evolution	**Unit Issue:** *Human activity can have evolutionary consequences for both biodiversity and ourselves.* **Overarching questions/Suggested Driving Question:** *How do human activities affect the evolution of other species, and what are the consequences for both biodiversity and for ourselves?*	*19 - 34 (4 - 7 weeks)*

[1] *includes links to detailed sensemaking progressions*
[2] *based on 50 min periods*

We'll continue to adjust the pacing based on our experiences during the pilot, feedback from Y1 of implementation, and to ensure we can incorporate non-curricular resources and experiences like Healthy Oakland Teens, work from partnerships with organizations/researchers, and the STEM fair.