

TABLE 4: *Implementation in an in-school setting [Xu 2020].*

Table 4 is a two-week implementation of the curriculum in an in-school setting. Teachers can use this as a template for their own lesson and implementation. Researchers can take lessons from the structure in terms of data collection.

Time	Activity	Detailed Activity	Researcher Template
1 Hour/Block/ Day	Instruction Phase	On each instructional day, the teachers taught one lesson of the curriculum. (Please see Table 1 for detailed lesson plans.) Teachers also used non-instruction days to catch up or review content learned in previous instruction days.	<ul style="list-style-type: none">• Teacher interviews (after Day 1)• Instruction videos• Observation notes
1 Hour/Block/ Day	Design Phase	The students designed, built, and coded their smart greenhouse. The teachers set expectations and rubrics for greenhouses.	<ul style="list-style-type: none">• Student observation videos• Observation notes
1 Day	Gallery Walk	The students showcased their greenhouses and presented their finished work to adults and peers, explaining how they worked and describing their experience with the project.	<ul style="list-style-type: none">• Field notes