Workshop Model for Secondary Science SEPs (see superscripts)

worksnop Model for Secondary Science 3E13 (see superscripts)	
Mini-Lesson 10-20min	Teacher introduces the day's topic with a question. The question should be relevant, thought-provoking, and open-ended. The question should be related to the student's prior learning. *Students may be required to write the question and some of the responses. *Questions need not be so open-ended that no conclusion is reached. This period of time should result in student learning.
	Possibilities include: -Questions may evoke scientific argumentation. ⁷ -Questions may require a calculation. ⁵ -Questions may require a quick online search. ⁸ -Questions may lead to further questions. ¹
	Students are assigned a task to work on alone. During this time the
	teacher moves about the room to assist students, as needed.
Independent Work MS: 10-20min HS: 20-30min Independent and Small Group segments may be interchanged, but both should be completed.	Possible tasks include: -Read and answer questions from the textbook or other source. 1, 4, 7, 8 -Draw and label a diagram of related content. 2 -Study a given chart or graph and write a list of observations, conclusions, or questions.4 -Read a passage, write conclusions.8 -Read the summary of a scientific investigation, write conclusions.3 -Write the plans for a scientific investigation on a given topic.3 -Read about a phenomena. Offer an explanation and support for the explanation.6 -Work on practice problems.5 -Watch a video, take notes, answer questions. 6, 7, 8
Small Group Work MS: 10-20min HS: 20-30min	Students, in groups of no more than 4, are given actual materials to study a given topic. Possible tasks include: -Measurement (direct or derived). 5 -Construct a device to certain specs.9 -Perform a task, collect and arrange data. 4,5 -Solve a real problem. 9 -Plan an investigation for the next day. 3 -Conduct an investigation. 3 On some days, this time may be extended for a full lab experiment, or to check the results of an experiment that was begun the previous day. On other days, a mini-lab may be performed.
Sharing 5-10min	Teacher guides the whole class to share what they learned based on minilesson discussion, independent work, and small group work. Teacher clears up any misconceptions from the day. Possible tasks include: -Teacher calls on a 3-4 individuals to share out. 1, 8 -Teacher calls on 1-2 groups to share out. 1, 8 -Teacher asks guiding questions to help students shape final conclusions. 1, 8

⁻Reader's Workshop.org. (n.d.). Retrieved January 2, 2018, from http://www.readersworkshop.org/
-Says, M., Says, C. C., & Says, M. K. (2016, March 22). Launching Your Math Workshop. Retrieved January 2, 2018, from https://www.thecurriculumcorner.com/thecurriculumcorner123/2015/08/launching-your-math-workshop/