The flipped classroom teaching strategy has become more known over the past couple of years. In general, the students watch instructional videos at home and are prepared to discuss the concept the following day. In class, students work in small groups on practicing the skill learned by doing the homework problems. I introduced this strategy to my 7th grade math classes by briefing describing what it is and showing a 5-minute YouTube video that another teacher created to explain the process to her class. I then asked the students about their initial thoughts. After a brief discussion, I asked the students to log-on to their Google account to complete an online survey about the flipped classroom.

Fifty-five students completed the survey and the results are as follows:

For the following questions, students rated on a scale of 1 to 5, where 1 is strongly disagree and 5 is strongly agree. The averages are given in red.

In general, I like watching instructional videos for math. 3.4

I would like to watch videos at home as homework. 3.6

I would like to do my paper-and-pencil homework in class. 4.2

If I were assigned a 5 minute video to watch for homework, I would watch it. 4.2

If I were assigned a 10 minute video to watch for homework, I would watch it. 3.5

If I were assigned a video to watch and learn from, I would benefit from having some written notes to refer to as well. 3.6

Overall, do you think you could learn the math topics well in the flipped classroom format? 3.6

For the following questions, students typed in responses. I provide a few examples of answers in red.

What are your concerns about the flipped classroom format? I am concered i wont understand and or like watching the video or forge to watch the video at home.

i have two sports i go to i have track almost every night and softball other nights and most of the time i try to get my home work done after i finish my work at school or on the bus and i wouldent be able to do that when we have to wach the video.

i only like the part where we do our homework in class.

i really have no concerns. i think its a great idea because when we are in class i am afraid to ask questions so i think this will be much better.
im just scared that i will not learn as well as i would with you teaching us. i dont know what it would be like when a test comes up, would i be prepared? i have never tried it before so i wouldnt know, im eager to see how it works out! i think it would work in general, but can we go over the lesson a little bit in class? just to get a full understanding.

What technology do you have at home and have access to for homework assignments? One student out of 55 said she did not have any technology tools at home. She did, however, say she would have access to technology and the internet at least twice a week from a friend or by other means.

Screen shot of Google Form data collected from survey:

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<th>File</th>
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<th>View</th>
<th>Insert</th>
<th>Format</th>
<th>Data</th>
<th>Tools</th>
<th>Form (56)</th>
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<th>Username</th>
<th>In general, I like watching instructional videos for math.</th>
<th>Sample Question 2</th>
<th>I would like to watch videos at home as homework.</th>
<th>I would like to do my paper and pencil homework in class.</th>
<th>If I were assigned a 5 minute video to watch for homework, I would watch it.</th>
<th>If I were assigned a 10 minute video to watch for homework, I would watch it.</th>
<th>If I were assigned a video to watch and learn from, I would benefit from having some written notes to refer to as well.</th>
<th>What are your concerns about the flipped classroom format?</th>
<th>Overall, do you think you can learn the topics well in flipped classroom format?</th>
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From this experience I have learned that my students have more concerns than confidence about this strategy. The majority of the rated questions were on the higher end of the scale, meaning most students agree more to watching videos and doing homework problems in class. The typed-in concerns, however, really show that students are not confident they will learn best in the flipped classroom. Many students addressed the concern about immediate feedback to questions, lack of internet or disruption in service, and lack of confidence in actually watching the videos. I also learned that the majority of students have a great deal of technology devices at home! Most students had access to at least three types of technology.
As a result of this experience, I intend to wait on implementing the flipped classroom model. I am confident that the majority of the students have the technology at home to participate in this teaching strategy. I feel that our math series (Connected Math Program) is not conducive to this type of teaching strategy, though. Additionally, most students are currently succeeding academically with the way the math class is structured now, so why change something that is working?