Thinking out-loud instructions

A structured think-aloud procedure consistent with Zimmerman’s (2000) cyclical model of self-regulation was developed for this course. Following this method when following lecture and working through problems helps with grasping concepts. This is broken down into three phases:

1. Forethought phase
   1. Prior to lecture, think aloud about what you want to gain from the following lecture. What about the following subject do you already know, what concepts are you struggling with?
   2. During homework, think aloud prior to taking actions in completing the homework task. When searching the internet for a solution, think ahead of time what you want to accomplish.
2. Performance phase
   1. During to lecture, think aloud about the current topic being discussed. What concepts make sense to you? What concepts do not? How is what is being lecture is helping you understand parts of this subject you were struggling with before?
   2. During the homework assignment, think aloud about how the current action is helping you complete the homework assignment
3. Self-reflective phase
   1. During/after lecture repeatedly reflect out-loud on whether concepts make sense. What information is missing to help you conceptualize what’s being discussed? What details were helpful in understanding/grasping the topic?
   2. During/after homework reflect out-loud on how each prior action helped progress you in completing the homework assignment. Reflect on how a prior action helped you understand the topic of the assignment/underlying technology.

\* Avoid exams in this blueprint because exams are about evaluating a knowledge base, not learning new material