

OPTIC (Observation Protocol for Teaching in Interactive Classrooms) Codes	
Codes (KEY below)	Shorthand meaning
<b>Interactions in the classroom</b>	
<b>I→WC</b>	Instructor verbally communicating to the whole classroom of students. The students are not verbally responding back to the instructor.
<b>I↔WC</b>	Instructor interacting with the whole classroom of students. The student(s) <i>are</i> verbally responding.
<b>IxWC</b>	Instructor <i>is not</i> observing or not monitoring whole class.
<b>I→LT</b>	Instructor is communicating to learning team, but the learning team <i>does not</i> communicate back to the instructor.
<b>IoLT</b>	The instructor is observing/monitoring learning team work without interacting with learning team
<b>I↔LT</b>	Instructor is interacting with a learning team, the learning team <i>does</i> communicate back to the instructor.
<b>LT↔LT</b>	Learning team or learning team representative interacting with another learning team or learning teams.
<b>S↔S (within LT)</b>	Students interacting with each other within the same learning team during collaborative activity.
<b>%xS</b>	An estimated percent of students <i>not</i> participating or <i>not</i> paying attention. Code with 0, 1, 2, 3
<b>Facilitator Actions</b>	
<b>PLA</b>	Preparation for a component of the learning activity immediately prior to that component, including any instructions for learning teams.
<b>MWC</b>	Instructor moving about the whole classroom observing, monitoring or coaching the learning teams.
<b>SWC</b>	Instructor observing or monitoring the whole classroom while remaining in one place. Instructor is static, not moving while observing. Observe at least 30 s.
<b>INTV</b>	Instructor intervenes and addresses the entire class to respond to student needs such as a misconception or confusing concept during an activity.
<b>RO</b>	Instructor and students using the information for a reporting out strategy from questions within the learning activity.
<b>LEC</b>	The instructor is lecturing to the whole class
<b>CM</b>	Instructor is involved in classroom management/administration tasks. Not related to content. Includes instructor's management of time or pacing.
<b>Activity Type</b>	
<b>POGIL</b>	Instructor using Process Oriented Guided Inquiry Learning
<b>CLA</b>	Instructor is using student-to-student collaborative learning approach other than POGIL.
<b>IND</b>	Instructor presents a task for students to work on individually.

KEY	
Facilitator Actions	Interactions
<b>PLA</b> , Preparing for Learning Activities	→, communicating to
<b>MWC</b> , Movement throughout Whole Classroom (WC)	↔, interacting with
<b>SWC</b> , Static while observing WC (w/o movement)	<b>I</b> , Instructor
<b>RO</b> , Reporting Out	<b>S</b> , Student
<b>INTV</b> , Intervention	<b>LT</b> , Learning Team
<b>LEC</b> , Lecture	<b>WC</b> , Whole Class
<b>CM</b> , Classroom Management/Administrative Tasks	<b>x</b> , no interaction