

## TEACHING DIMENSIONS OBSERVATION PROTOCOL (TDOP)

### I. Observer Information

1. Observer name: \_\_\_\_\_
2. Date and time of observation: \_\_\_\_\_
3. Purpose of observation: \_\_\_\_\_

### II. Instructor Characteristics

1. Instructor name: \_\_\_\_\_
2. Appointment type: \_\_\_\_\_
3. Sex and ethnicity: \_\_\_\_\_

### III. Course Characteristics

1. Class name: \_\_\_\_\_
2. Course level: \_\_\_\_\_
3. Course purpose: \_\_\_\_\_
4. Department: \_\_\_\_\_
5. What is the total number of students in the class at the time of the observation?  
 25 or fewer     76–100     151–175  
 26–50         101–125     176 or more  
 51–75          126–150

6. Please describe the physical layout of the room (e.g., type of student seating, instructor on dias, etc)

7. Please note if there is anything unusual about this particular class/lecture (e.g., quiz day, first day of semester, etc)

Citation for this instrument: Hora, M., & Ferrare, J.. (2010). The Teaching Dimensions Observation Protocol (TDOP). Madison, WI: University of Wisconsin-Madison, Wisconsin Center for Education Research.

Note: This protocol was largely adapted from Osthoff, E., Clune, W., Ferrare, J., Kretchmar, K., & White, P. (2009). Implementing immersion: Design, professional development, classroom enactment and learning effects of an extended science inquiry unit in an urban district. Madison: University of Wisconsin–Madison, Wisconsin Center for Educational Research.

## Observation Code Bank

These codes represent a wide variety of possible teaching dimensions that may occur across disciplines and institutions. Select from this code bank those individual codes that (a) you consider likely to be present in your institution/department, and (b) you are particularly interested in for your purposes. These codes can then be inserted into the 2-minute interval forms on the following pages. For guidelines on how to code particular behaviors please consult the TDOP manual.

### Type of Instructional Methods

- L** **lecture:** the instructor is talking to the students and not using any visuals or demonstration equipment.
- PV** **lecture with pre-made visuals:** the instructor is talking to the students while using pre-made visual aides, such as slides, transparencies, posters, etc.
- HV** **lecture with handwritten visuals:** the instructor is talking to the students while actively writing and presenting notes, creating charts/diagrams
- DEM** **lecturing with demonstration of topic or phenomena:** the instructor uses equipment (e.g., lab equipment, computer simulation, or other physical objects) to convey course content.
- I** **interactive lecture:** the instructor is talking to the students while asking questions to which the students are responding (this is always coded with a question-type).
- IL** **illustration:** the instructor uses real-world examples, anecdotes, or stories to convey course content.
- SGW** **small group work/discussion:** students form into groups of two or more for the purposes of discussion and/or to complete task
- DW** **deskwork:** students complete work alone at their desk/chair (e.g. problem solving, writing, reading etc)
- CS** **case study:** the instructor presents or describes an extended case for elaboration/analysis that is portrayed via lecturing and/or explored by students via deskwork or small group work. This is a more extended version of an illustration.
- CD** **whole class discussion:** students are answering and asking questions amongst themselves for a sustained period of time (i.e. more than 2 question/answer exchanges). This is different than an interactive lecture in which the instructor is directing all of the questions.
- A** **assessment:** students take a test or quiz
- AT** **administrative task:** the instructor and/or students make announcements, discuss upcoming assignments or exams, or engaging in other logistical tasks.
- MM** **multimedia:** the instructor plays a video or movie (e.g., youtube or documentary) while the students watch.
- O** **other:** this category is meant to capture unique events such as a formal student presentation or guest speaker. In the case of guest speaker, code 'other' along with the instructional methods they use during their presentation.

### Instructor/Student Interactions: Types of Q&A

- NQ** **instructor novel question:** the instructor's question seeks new information from students.
- RQ** **instructor rhetorical question:** the instructor
- FQ** **instructor factual question:** instructor's question seeks a specific factual or conceptual answer, including equations.
- PQ** **instructor process question:** instructor's question asks students to recall a specific process to yield an answer
- PSQ** **instructor problem solving question** instructor's question asks students to solve a computational problem or a conceptual dilemma.
- CQ** **instructor comprehension question:** instructor checks for understanding (e.g., "Does that make sense?" or "Does anybody have a question about what I just said?")
- SNQ** **student novel question:** a student poses a question to the instructor that seeks new information (i.e. not asking to clarify a concept that was previously being discussed).
- SCQ** **student comprehension question:** a student poses a question to the instructor that seeks clarification of a concept that is part of the current or past class period.

### Cognitive Activity (Instructor's implied demand of the students):

- RMF** **Receive, recall, memorize facts or definitions:** (e.g., students expected to retain fact/procedure/concept)
- RMP** **Receive, recall, memorize process:**
- PS** **Problem Solving** (e.g., students are asked to understand analytic process)
- EV** **Evaluation:** instructor explicitly asks students to judge or differentiate between different decisions, outcomes, or ideas.

- CR** **Creating:** (e.g., the teacher provides opportunities for students to be creative and/or generate their own ideas and products)
- CN** **Connections to the Real World:** (e.g., the teacher relates concepts to the student's actual lives)

### Instructional Artifacts

- PO Poster
- B Book (s)
- P Pointer
- BB Black/white-board
- OP Overhead/transparencies
- LC Laptop/slides
- OB Object/Artifact
- EX experimental equipment (e.g., beakers, Bunsen burners, etc.)
- D demonstration equipment (e.g., balls suspended from ceiling)
- T Tablet
- M Movie, documentary, video clips, or Youtube video
- SI Simulation

See pages 2 for Code Key and Instructions for completing grid.

Minutes	0-1	2-3	4-5	6-7	8-9	10-11
<b>Instr.</b>	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O

Notes: Include brief description of what the instructor is actually doing here (e.g., sequence of argumentation)

<b>Questions /Interactions</b>	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ
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Notes: For each question specify either 'NA/X' (NA=quest. not answered/X=# of seconds wait-time) or 'A/X' (A=answered/# of seconds)

<b>Cognitive Activity:</b>	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN
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<b>Instruct. Artifacts:</b>	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI
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Minutes	12-13	14-15	16-17	18-19	20-21	22-23
<b>Instr.</b>	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O

Notes: Include brief description of what the instructor is actually doing here (e.g., sequence of argumentation)

<b>Questions /Interactions</b>	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ
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Notes: For each question specify either 'NA/X' (NA=quest. not answered/X=# of seconds wait-time) or 'A/X' (A=answered/# of seconds)

<b>Cognitive Activity:</b>	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN
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<b>Instruct. Artifacts:</b>	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI
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Minutes	24-25	26-27	28-29	30-31	32-33	34-35
<b>Instr.</b>	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O	L LPV LHV LDEM LINT IL SGW DW CS CD A AT MM O
Notes: Include brief description of what the instructor is actually doing here (e.g., sequence of argumentation)						
<b>Questions /Interactions</b>	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ	NQ RQ FQ PQ PSQ CQ SNQ SCQ
Notes: For each question specify either 'NA/X' (NA=quest. not answered/X=# of seconds wait-time) or 'A/X' (A=answered/# of seconds)						
<b>Cognitive Activity:</b>	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN	RMF RMP PS EV CR CN
<b>Instruct. Artifacts:</b>	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI	PO B P BB OP LC OB EX D T M SI

Minutes	36-37	38-39	40-41	42-43	44-45	46-47
<b>Instr.</b>	L LPV LHV	L LPV LHV	L LPV LHV	L LPV LHV	L LPV LHV	L LPV LHV
	LDEM LINT IL	LDEM LINT IL	LDEM LINT IL	LDEM LINT IL	LDEM LINT IL	LDEM LINT IL
	SGW DW CS	SGW DW CS	SGW DW CS	SGW DW CS	SGW DW CS	SGW DW CS
	CD A AT	CD A AT	CD A AT	CD A AT	CD A AT	CD A AT
	MM O	MM O	MM O	MM O	MM O	MM O

Notes: Include brief description of what the instructor is actually doing here (e.g., sequence of argumentation)

<b>Questions /Interactions</b>	NQ RQ FQ	NQ RQ FQ	NQ RQ FQ	NQ RQ FQ	NQ RQ FQ	NQ RQ FQ
	PQ PSQ CQ	PQ PSQ CQ	PQ PSQ CQ	PQ PSQ CQ	PQ PSQ CQ	PQ PSQ CQ
	SNQ SCQ	SNQ SCQ	SNQ SCQ	SNQ SCQ	SNQ SCQ	SNQ SCQ

Notes: For each question specify either 'NA/X' (NA=quest. not answered/X=# of seconds wait-time) or 'A/X' (A=answered/# of seconds)

<b>Cognitive Activity:</b>	RMF RMP PS	RMF RMP PS	RMF RMP PS	RMF RMP PS	RMF RMP PS	RMF RMP PS
	EV CR CN	EV CR CN	EV CR CN	EV CR CN	EV CR CN	EV CR CN

<b>Instruct. Artifacts:</b>	PO B P BB	PO B P BB	PO B P BB	PO B P BB	PO B P BB	PO B P BB
	OP LC OB EX	OP LC OB EX	OP LC OB EX	OP LC OB EX	OP LC OB EX	OP LC OB EX
	D T M SI	D T M SI	D T M SI	D T M SI	D T M SI	D T M SI

**Field Notes:**