EXERCISE

What does the TA need to know? (or learn?)

Prepare

Classroom
Inter- & intrapersonal dynamics
Student development
Motivation
Learning styles
How to:
  respect
  interact
  help
  encourage
  listen, respond, question

Manage
Procedures
Safety
How to do experiment
How to run instruments
How to:
  answer
  demonstrate
  trouble shoot
  fix

Teach
Understand concept and design
Context
Significance
Purpose
How to:
  explain
  connect to lecture
  help student trouble shoot
  engage ideas
  prompt reasoning

PRACTICAL AND THEORETICAL
CLASSROOM KNOWLEDGE

LABORATORY CONTENT
KNOWLEDGE
(EASY-DEFAULT)

PEDAGOGICAL
CONTENT KNOWLEDGE
(HARD, LEARN HOW)