Learning Design Sequence

Predict-Observe-Explain

△ RESOURCES	▢ TASKS	◯ SUPPORTS

Explanation of POE strategy (face-to-face lecture)

Interactive Multimedia CD-ROM (16 scenarios)

Setup: Students are introduced to POE strategy and form pairs

Tutorial about use of CD-ROM

Interactive Multimedia CD-ROM (16 scenarios)

Pairs discuss and **predict** outcome for supplied scenario. Prediction and accompanying rationale recorded

Peer collaboration (POE task performed in pairs)

Predictions saved on computer

Pairs **observe** scenario outcome (video based)

Groups of pairs **explain** any differences between their prediction and observations. Explanation is recorded

Facilitated small group discussion about task

Explanations saved on computer

1 learning session

POE task sequence repeats based on number of POE scenarios

Class **debrief**

Teacher facilitated class discussion of student predictions and explanations
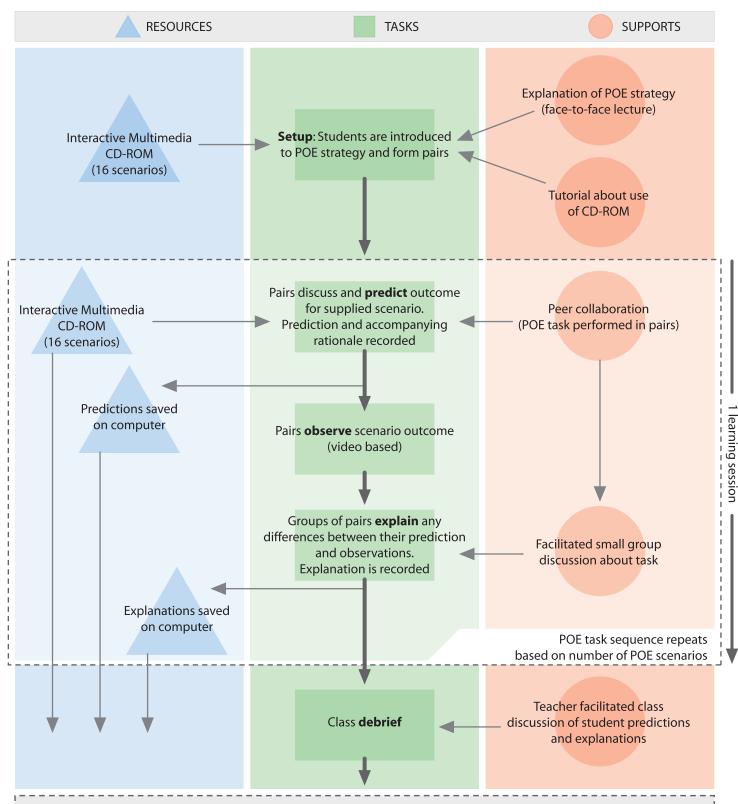
Intended Learning Outcomes:
- Articulate, justify and critically reflect on self and partner's science preconceptions and become aware of alternative conceptions.
- Develop science discourse skills.
- Develop science process skills (predicting, observing etc.).
- Gain an appreciation and awareness of the integral relationship between science and everyday life.