Alternate Solutions

grouped by specificity level

Assessing Understanding
- Tests, Homework, Other Graded Work
  - Basic, quantitative assessments. Not really our field
- Reports, Meetings
  - Reports on a student or classes understanding, standard way of expressing students’ understanding in a nuanced manner

Visually Assessing Understanding
- Representing understanding through artwork [1] [2]
  - More related to affective learning, research has been done on visualizing a student’s attitude toward a topic
- Graphing progress of modules or goals [3]
  - Work has been done to graph students progress through assignments over a week

Assessing a group’s understanding given individual concept maps
- Scoring concept maps and comparing scores through data visualization [4] [5]
  - Lots of research has been done on scoring concept maps, with various methods
- Generating a report of understanding based on concept maps [6]
  - Could work in tandem with a collective concept map, probably in the realm of future work. Not much research done, but some research on extracting prerequisites which could be adapted to fit this solution

Riordan Brennan - Marquette REU Summer 2021