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South Dakota State University

ECE 488: Student Teaching within SDSU Preschool Laboratory

Concepts addressed in this review sheet: *Techniques for creating effective bridges between curriculum goals and students’ experiences: encouraging problem-solving and exploration*

Students should refer to notes within packet as well as daily communication notes taken during student teaching

Specifically, students should review:

- Knowing how and when to ask questions to encourage problem-solving and exploration
- Difference between open-ended questions vs. closed-ended questions
- Possible questions which could stimulate problem-solving/exploration:
  - Probing for learner understanding
  - Facilitating factual recall or factual information gained
  - Encouraging convergent and divergent thinking
  - Stimulating curiosity and understanding
  - Helping students to question, in general
- Possible resources which could be identified or utilized during, including media communication tools, materials, and human resources
- Identifying cultural and familial differences when using problem-solving strategies
- Approaches for accommodating various learning styles, intelligences, or exceptionalities
- Definition of and allowing for inquiry to occur
- Provide multiple opportunities in which children are engaged in activities
- Knowing to anticipate and how to respond to misconceptions
- Knowing how to promote productive risk-taking
- Promote and enhance self-motivation, specifically when speaking of problem-solving and exploration:
  - Extrinsic and intrinsic motivation
  - Positive and negative reinforcement
  - Indirect guidance means (environmental set-up, pacing and structuring lessons, etc.)