

S. Evaluation of Student Cognitive Development

Questions (for appropriate age and educational level)	How to Answer the Questions	Resources
1. Are students able to think creatively and critically?	Pen-and-pencil test to students	<i>Cognitive Development and Group Stages</i> (Saidla, 1990).
2. Do students exhibit problem solving ability, including the identification of problems, forming and selecting solutions, testing hypotheses, and observing results?	Pen-and-pencil test to students	<i>Cognitive Development: A Critical Problem Solving and Genetics Instruction: A Critical Review</i> (Smith & Sims, 1992).
3. Do students display the ability to reason, including the use of deductive reasoning, inductive reasoning, and logic?	Panel discussion or debate by students	<i>Relationships Among Levels of Cognitive Development, Gender, Chronological Age and Mathematics Achievement</i> (Stokes, 1990).
4. Are students able to communicate effectively in terms of speaking, listening, reading, and writing?	Panel discussion or debate, essay reading and writing exercise	<i>Summative Evaluation of the Comprehensive and Cognitive Development (CCD) Program</i> (Seever, 1991).
5. Are students able to access, process, and apply information related to academic areas of study, i.e., math, science, social studies, etc.?	Interview teachers and students	<i>Memory Independence and Memory Interference in Cognitive Development</i> (Brainerd & Reyna, 1993). <i>Dyadic Pairings for the Enhancement of Cognitive Development in the School Curriculum: Some Preliminary Results on Science Tasks</i> (Kutnick & Thomas, 1990).

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6. Do students know and understand facts, concepts, and generalizations in the areas of study included in the school's curriculum?	Pen-and-pencil tests	<i>Cognitive Development: An Information Processing Approach</i> (McShane, 1991).