

Outcomes and Measures for *IT Literacy & Skills in Rural Schools Evaluation*

Question	Outcomes	Measures
1. Did participation in the ITAT promote teachers' ability to incorporate IT tools into classroom instruction and use different instructional methods?	Process 1. Teachers complete ITAT 2. Teacher confidence using IT tools 3. Teacher perceptions about technical support and accessibility of resources 4. Teacher familiarity with IT, science and engineering careers	1. Unobtrusive measures (review of project records, feedback from university faculty) for Outcome #1 2. Pre/post-ITAT surveys of teachers to assess Outcomes #2, 3 & 4 3. Review of lesson plans
2. Did participation in the ITAT promote teachers' ability to incorporate IT into science/math classes and to adapt lessons for students with different IT literacy and skill levels? 3. Did changes in instructional practices resulting from participation in ITAT result in changes in student math/science performance?	Summative 1. Use of IT tools, hands-on activities, and inquiry-based lessons in math and science classes 2. Lessons modified for students with different levels of IT literacy and math/science skills 3. Students math/science performance	1. Review of lesson plans 2. Follow-up survey about instructional practices 3. Reports from faculty mentors 4. Students performance on NC state math/science standards (comparison of classes of pre/post academy and ITAT graduates vs. other matched teachers)
4. Did participation in the ITAS increase student interest in math and science?	Summative 1. Student interest in taking higher-level math and science courses 2. Student interest in taking AP credit courses	1. Pre/post ITAS surveys 2. Student enrollment in higher level math/science courses 3. Student enrollment in AP credit courses
5. Did participation in the ITAS increase student knowledge of and interest in science, engineering and technology majors and careers?	Summative 1. Student knowledge of and interest in careers in science, engineering and technology 2. Student interest in postsecondary education	1. Pre/post ITAS surveys
6. Did participation in the Parent-Teacher Symposium increase parents' awareness about student postsecondary aspirations, in-state postsecondary opportunities, and careers in science, engineering and technology.	Summative Parent knowledge about: 1. link between parental expectations and students college aspirations and academic performance 2. postsecondary opportunities at N.C. colleges/universities 3. IT literacy and careers in science, engineering and technology	1. Pre/post symposium survey of parents