

**“Teaching Math and Science in a Changing World”
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Our project studies the influence of hands-on and inquiry instruction on student achievement and teacher/student attitudes toward science. It is designed to increase content knowledge and promote the use of inquiry-based pedagogy aligned to the Virginia Standards of Learning. We will host a one-week Teaching Institute in June for 40 local school teachers. Sessions will include Earth science, physics, biology, universal design to reach all learners, reading and writing in the content area, and meeting the learning needs of diverse learners. This professional development opportunity is designed to increase teachers' content knowledge so that they can more easily implement problem-based lessons in science and mathematics classrooms. We will create resources including lesson plans, associated content, and instructional tools for inquiry-based lessons. The weeklong Institute will be followed by a field-based experience at the Jubilee Family Development.

