PRI NCI PALS

Registration for Grades 1-8
After-School SCIENCE Classes

The Western UP Center for Science, Mathematics and Environmental Education has received a grant from U.S. Environmental Protection Agency to fund this year’s After-School Science Classes. The cost of After-School classes for 15 students per 6-week class will be $300. Schools may use Title I or PTO funds, or charge participants all or part of the cost. The Center selects and trains Michigan Tech University students who are juniors, seniors or graduate students majoring in science and engineering fields to teach these fun, hands-on, inquiry-based After-School Science classes. The Center develops the curricula so that all activities connect to Michigan Content Standards for math and science, and provides assembled activity kits for each lesson. New classes are coming for winter ’05 session! Classes are conducted once per week for 6 weeks during fall and winter sessions and 4 weeks during spring session. Classes are limited to 15 students. An assistant for the grades 1-3 class is greatly appreciated. Please submit requests to: Joan Chadde at 906-487-3341 or jchadde@mtu.edu or FAX 906-487-1620 by January 10 for Winter Session and March 1 for Spring.

After-School Sessions available for 2004-05 school year:

For Grades 1-3
- **Under Our Feet**: erosion, rocks v. minerals, mining & recycling, sand/soil, and fossils.
- **Amazing Animals**: wiggle worm experiments, animal adaptations, insect investigations
- **Science Explorers I**: characteristics of objects, sound, forces, flight, simple machines
- **Outdoor Investigations**: explore trees, wildlife, insects, and ecological relationships (fall/spring)
- **Science Explorers II**: water cycle, weather, energy, changes in matter
- **Insect Friends**: explore body parts, major insect groups, adaptations and ecology.

For Grades 4-6
- **Outdoor Investigations**: explore trees, wildlife, insects, and ecological relationships (fall/spring)
- **Chemistry for Kids**: mix, dissolve, measure, conduct experiments, and investigate chemistry
- **Alternative Energy LEGOS**: design and build vehicles powered by solar, water & wind energy
- **Engineering Challenges**: constructing buildings, bridges, tunnels, and other structures.
- **The Human Body**: learn about muscle groups, skin, senses, health, and stamina
- **Microscopic Exploration**: microscopes, good and bad bacteria, and microbiology in our lives.
- **Science Explorers**: electricity, air pressure, physical/chemical properties of water, simple machines

For Grades 7-8 (or 6-8)
- **Energy & Resources**: explore environmental sustainability by examining our use of renewable and non-renewable energy and natural resources, and potential global consequences.
- **Chemistry Around Us**: observe physical changes in matter, design and conduct experiments, research an everyday substance
- **Engineering Problem-Solving**: tackle typical “jobs” of civil, mechanical, chemical and environmental engineers

Session Dates: Jan 24-March 4 April 11-May 6

Class Logistics: Students have supervised play on the playground after school, then come into the school for a snack, and participate in classes from 3:30-5:00 PM.

Schools are asked to provide:
- Student registration for After-School Classes.
- In-school supervisor available during class time for MTU student to contact with student problems.
- Teacher or parent assistant for each class (especially for grades 1-3 classes).
- After-school snacks for participating students
- Classroom with tables and chairs, such as a science lab or art room.

The Western UP Math & Science Center provides: trained MTU student instructor, age-appropriate activities for each class, registration flyer to advertise classes, all activity supplies.
Principals – Please provide the information requested below. Check all of the programs and session dates that will work for your school.

School Contact _______________________________ Email ______________
School Name ________________________________ Phone ______________
School Address _______________________________________________________

1. Check all program session dates that you’re interested in:
   _____ Jan 24-March 4, 2005    _____ April 11-May 6, 2005

2. Circle all days of the week that will work. Cross out any days that WILL NOT work for conducting the After-School Classes at your school:

   Monday  Tuesday  Wednesday  Thursday  Friday

3. Check all programs and age groups that you’re interested in having:
   a. Grades 1-3
      _____ Amazing Animals   _____ Outdoor Investigations
      _____ Science Explorers I  _____ Science Explorers II
      _____ Under Your Feet    _____ Insect Friends
   b. Grades 4-6
      _____ Chemistry for Kids    _____ Alternative Energy LEGOs
      _____ Engineering Challenges  _____ Science Explorers
      _____ Outdoor Investigations  _____ Microscopic Explorations
      _____ The Human Body
   c. Grades 7-8
      ___ Energy & Resources ___ Chemistry Around Us ___ Engineering Problem-Solving

4. Can your school provide a person to assist with every class period?  YES  NO
   Who will this person be: ____________________  Circle: parent  aide  teacher

5. Can your school distribute the flyer and manage registration?  YES  NO

6. Who will the onsite MTU-student supervisor be in your school?  ________________________________
   Tel: ________________________________ Email: ________________________________

Please FAX to Joan Chadde at 906-487-1620 by January 10, 2005 for Winter Session