An estimated 31.7% of U.S. children and adolescents are overweight, with an additional 17% obese. In recent years, Colorado’s ranking for childhood obesity rates dramatically worsened from 3rd (as healthy) to 23rd place. **Fuel for Fun Cooking with Kids Plus Parents and Play** is an integrated research, extension, and education project targeting 4th-grade students. Its long-term goal of reducing the risk of childhood obesity will be addressed by promoting healthful food and activity environments, policies and behaviors through: 1) building and testing the efficacy of a 4th-grade comprehensive school- and family-based intervention, 2) applying it to an after-school setting to broaden its reach, and, 3) disseminating both versions throughout Colorado. The program is composed of 5 components to be implemented in 8 schools in Fort Collins and Loveland.

**Fuel for Fun Classroom** – hands-on cooking and tasting lessons developed to enhance cooking skills and provide positive experiences with a wide variety of wholesome, healthy foods

**Sports, Play, and Active Recreation for Kids (SPARK) Active Recess program** – promotes quality, daily, physical activity in youth and is designed to encourage maximum participation for every player, regardless of ability

**Fuel for Fun Cafeteria Connection** – links the classroom lessons to healthful foods in the school cafeteria and uses a variety of strategies to encourage students to make more healthful choices

**Fuel for Fun Family** – designed to engage parents, encourage their participation and reinforce what students experience through the CWK 2.0 classroom, recess, and cafeteria components

**About Eating** – a 6-lesson, on-line healthy eating and activity resource for busy parents

**Fuel for Fun** will be implemented for two years, beginning in fall 2013, using an asynchronous design that allows for assessment of the school-based program alone and in combination with both **Fuel for Fun Family** and **About Eating**. Changes in fruit and vegetable intake and activity levels are primary outcomes, with measured BMI as a secondary outcome. University students will gain valuable research experience and Extension educators will receive important childhood obesity prevention training. We will apply a Community Readiness model to assess which communities are ready for program adoption, then package and promote **Fuel for Fun** for dissemination throughout Colorado. The project’s long term goal is consistent with the USDA goal of improving the nation’s nutrition and health by promoting the development of healthy eating and activity habits in children.