

Teacher Resource Information For STEM Connections

Plan learning experiences and projects using family and consumer sciences content knowledge and skills within career pathways in the Human Service, Hospitality and Tourism, and Education and Training Clusters and the approaches listed below.

Scientific Method*	Engineering Approach*
Ask a Question Do Background Research Construct a Hypothesis Test Your Hypothesis by Doing an Experiment Analyze your Data and Draw Conclusions Report your Results	Identify Problem Brainstorm Design Build, Redesign, Test, and Evaluate Share Solution

Sample Learning Experiences and Projects*

Careers

- Develop a personal/professional network to assist in career exploration through a variety of experiences
- Identify employability skills helpful in obtaining and maintaining a job
- Analyze an individual career plan and personal aptitude interests against short range and long range goals and values
- Interpret the impact on families of critical issues faced by workers
- Participate in a job inventory assessment
- Interview parents/family members/friends about their career experiences and write a summary of findings
- Brainstorm what basic skills are needed in a work setting and compare these findings to the school setting
- Develop a personal/professional network to assist in career exploration through a variety of experiences

Child Development

- Identify community resources that benefit children
- Determine toys, books, games, and software of interest to children
- Analyze the safety and proper use of toys
- Compare different forms of management used with children in different situations
- Determine toys that are developmentally appropriate for infants, toddlers, and preschoolers
- Make homemade play dough and write a reflection about its value as a learning/teaching tool
- Create a babysitting kit
- Evaluate preschool books as related to young children and their growth
- Role play situations where students decide which management technique/techniques can be used to handle a situation and discuss why the technique may or may not be the best
- Identify stages of human development
- Describe the influence of heredity and environment on human development

- Create developmentally appropriate games and activities for young children
- Identify safety rules when working with children
- List techniques for positive relationships with children
- Create a visual/project showing stages of human development
- Research and compare/contrast how heredity and environment impacts human growth and development
- Work with a partner and write a book dealing with childhood safety issues
- Collect songs, finger plays, recipes, and activities for different ages and stages (use index card/index books to store collection)
- Identify correct parenting and caregiver techniques using case studies
- Interview parents and caregivers comparing opinions on the roles and responsibilities of parents and caregivers
- Research different cultures and parenting techniques
- Invite guest speakers to share about Early Childhood Education careers
- Take a field trip to a childcare center to observe
- Research birth defects and share information using a PowerPoint presentation

Food, Nutrition, and Wellness

- Investigate the dietary guidelines at <http://www.foodpyramid.com/mypyramid/>
- Classify the sources of nutrients
- Identify safety and sanitation practices
- Identify and demonstrate acceptable behaviors for table service and etiquette
- Using the <http://www.choosemyplate.gov/> Web site, determine daily dietary intake and create an activity plan
- Plan modifications to eating patterns using the information from “my pyramid”
- Identify and practice proper hand washing procedures
- Investigate the sanitation level with a product like “Glogerm”
- Work in groups to plan a simple meal
- Create a tablescape complete with proper table service
- Demonstrate dietetic and nutrition management principles and practices
- Distinguish between a healthy diet and fads, food addictions and eating disorders
- Demonstrate strategies and skills used to set personal health goals
- Research cultural influences on individual family food preferences and practices
- Apply essential concepts related to nutrients and dietary requirements to personal nutritional habits
- Evaluate factors that affect food quality and nutrient retention
- Distinguish between the correct use of liquid and dry measuring utensils
- Investigate the most common causes of food-borne illnesses
- Create a cooking show
- Design/prepare a nutritionally sound meal
- Demonstrate food service knowledge through role play
- Research different agricultural products grown and distributed in Alabama
- Research current health issues affecting children and teens and how to improve these conditions and share findings
- Implement kitchen management through proper use of kitchen equipment and utensils.

- Practice the basic concepts of food production
- Plan and prepare a simple menu, tablescape and table setting/have each table invite a teacher to attend
- Develop weekly menus using <http://www.choosemyplate.gov/>
- Use internet sources to analyze weekly menus for nutrition information
- Use recipes to practice increasing and decreasing the yield of recipes
- Create variations of a recipe by using a master mix
- Investigate commercial food preparation careers

Consumer and Finance

- Discuss the importance of money and time management
- Determine short term and long term financial goals
- Research resource available to meet the financial needs of individuals and families
- Take a money management and time management survey and analyze results
- Record personal expenses for one week to determine how your money is spent
- Determine ways to earn income
- Create a visual of “help” agencies available in the community
- Explain the cost and limitations of credit
- Describe consumer rights and responsibilities
- Analyze how advertising impact consumer decision
- Explain how technology impacts consumer behavior
- Research the effect/cost of bad credit
- Select an advertisement from a magazine, Web site or television and describe why it appeals to you or other consumers
- Take the Financial Fitness Test on the FCCLA Web site and analyze your results
- Use case studies to help student apply the principles of management
- Identify most commonly used terminology related to banking and finance
- Create a daily/weekly schedule
- Create a personal budget
- Judge the impact of technology on consumers
- Explore the pros and cons of online shopping
- Design a brochure, booklet or flyer describing consumer’s rights and responsibilities
- Create a commercial
- Create a survey to determine consumer needs and wants
- Analyze the responsibilities associated with managing personal finances
- Demonstrate financial literacy and money management strategies in areas of budgeting
- Create a family budget using case studies
- Investigate/compare the various services available through community banking institutions
- Invite banking personnel to present information about banking careers
- Describe the impact of technology of consumers
- Interview parents/other adults to learn about online banking practices
- Discuss the relationship between emotions and spending
- Evaluate the cost of credit using case studies
- Estimate the cost of loans on homes and cars/explore ways to cut this cost

Culinary Arts/Foods

- Analyze kitchen safety procedures and sanitation techniques
- Demonstrate food preparation using kitchen safety and sanitation techniques
- Compare the dietary guidelines and <http://www.foodpyramid.com/myplate/> to a weekly meal plan
- Practice measuring using measuring equipment and tools
- Prepare a simple meal

Interior Design

- Identify basic human needs met through housing
- Identify lifestyle, needs, values, and goals related to housing
- Develop a list of safe household practices
- Create a comfortable living space
- Recreate a student's bedroom using a computer room planning program
- Create a dream room using cutouts from magazines and write a statement explaining why this is your dream room
- Develop a picture worksheet depicting unsafe household practices
- Develop a creative project for the home
- Identify household tasks needed for efficient care of living space
- Evaluate family tasks and adjustments related to moving
- Practice ways to organize and design living space
- Compare/contrast generic versus brand name cleaning supplies
- Create a "Clean Green" campaign
- Develop a cleaning schedule for personal space
- Design a presentation highlighting universal designs
- Identify specific consideration and/or adaptations that would improve a living space for individuals with disabling conditions
- Apply elements and principles of design by creating a project
- Explain ways to conserve natural resources in family, school, work and/or community settings
- Identify the impact of technology on residential and commercial design
- Design a room (kitchen, living room, bedroom, bath or dining room) to include all the elements of design
- Research different housing options and compare their cost
- Create a "Green Living" project

Fashion Design

- Determine values/needs/wants related to wardrobe
- Recognize factors influencing clothing purchase
- Determine appropriate clothing care for specific clothing
- Use creative ideas and materials to personalize an individual and/or group project
- Complete a personal wardrobe inventory and determine needs
- Demonstrate how to recycle clothing items
- Identify appropriate clothing for individuals' roles and activities

- Identify lifestyle and preferences affecting clothing choice
- Use care label information to select appropriate procedure for care of clothing and accessories
- Create a project on re-designing or recycling clothing items
- Assess personal wardrobe
- Investigate clothing and its impact on a person's self-concept/self-esteem
- Identify daily, weekly, and seasonal care of clothing and accessories
- Using an inventory guide, evaluate personal wardrobe/use findings to clear out and organize personal wardrobe
- Create a visual of appropriate clothing for various situations including social, job interviews, school, free time, and family occasions
- Present a fashion show using the school dress code as your guidelines
- Create a project that requires various mending skills to be used

Family, Community, and Leadership

- Analyze elements of an environment that encourages and respects the ideas, perspectives, and contributions of all group members
- Determine community and civic responsibilities, volunteerism, volunteer management and recognition, and social services
- Analyze the characteristics of persons who are valued leaders and citizen in the community
- Develop a project that demonstrates leadership skills
- Identify the elements of an environment that encourages and respects the ideas, perspectives, and contributions of all group members
- Discuss community and civic responsibilities, volunteerism, volunteer management and recognition, and social services

FCCLA Activities

Use the FCCLA National programs:

- Dynamic Leadership
- Power of One
- Community Service
- F.A.C.T.S (Families Acting for Community Traffic Safety)
- Financial Fitness
- Student Body
- Families First
- Leaders At Work
- STAR Events
- Career Connections
- Stop! The Violence

Reading

- Read books, articles, technical texts or newspapers (in the various areas of family and consumer science)

- Discuss readings
- Build vocabulary knowledge
- Establish context

Writing

- Write clear, coherent text

Researching and Technologies

- Use research and technology to support writing
- Identify topics, ask and evaluate questions, and develop ideas leading to inquiry, investigation, and research
- Use organizational features of electronic text to locate relevant information

Note: *This information of project ideas was obtained from the Georgia State Department of Education, Sixth Seventh, and Eighth Grade, Family and Consumer Sciences courses.*