Academic Standards for Family and Consumer Sciences



Pennsylvania Department of Education

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XXXII. INTRODUCTION

This document includes Academic Standards for Family and Consumer Sciences at four grade levels (third, sixth, ninth and twelfth) with the emphasis on what students will know and be able to do in the following areas:

- ♦ 11.1. Financial and Resource Management
- ♦ 11.2. Balancing Family, Work, and Community Responsibility
- ♦ 11.3. Food Science and Nutrition
- ♦ 11.4. Child Development.

The focus of the Academic Standards for Family and Consumer Sciences education is the individual, the family and the community. The economic, social and political well-being of our state depends on the well-being of Pennsylvania's families. The family is responsible for nurturing its members. Family experiences, to a great extent, determine who a person is and what a person becomes. Family and Consumer Sciences, working with Pennsylvania's families, supports the development of the knowledge and skills that students need as family members both now and in the future. The 21st Century requires students to develop the ability to transform information into knowledge by using standards to certify that this information is meaningful, categorizing it to a purpose and then transforming their knowledge into wisdom by applying it to real life.

Family and Consumer Sciences is a discipline composed of strong subject matter concentrations with a commitment to integration. Concepts form a framework for learning based on these tenets:

• Families are the fundar	mental unit of society.
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- A life-span approach to individual and family development contributes to creating lifelong learners.
- Meeting individual and family needs inside and outside the home are shared responsibilities.
- Individual, family and community well-being is strengthened through an awareness of diversity.
- The use of diverse modes of inquiry strengthens intellectual development.
- The content learning in Family and Consumer Sciences classes enhances the mastery of academic standards.
- Standards-based learning within Family and Consumer Sciences classrooms can best be demonstrated through performance based assessment.

Learners in Family and Consumer Sciences nurture themselves and others, taking increased responsibility for improving their quality of living.

The Academic Standards for Family and Consumer Sciences are written to empower individuals and families to manage the challenges of living and working in a diverse, global society. These Academic Standards address the functioning of families and their interrelationships with work, community and society. The focus is on the reoccurring, practical problems of individuals and families. An integrative approach is used to help individuals and families identify, create and evaluate goals and alternative solutions to significant problems of everyday life. Students are taught to take responsibility for the consequences of their actions. Comprehensive classroom experiences allow students to develop the knowledge and skills needed in making choices to meet their personal, family and work responsibilities.

A glossary is included to assist the reader in understanding terminology contained in the standards.

11.1.3. GRADE 3	11.1.6. GRADE 6	11.1.9. GRADE 9	11.1.12. GRADE 12
Pennsylvania's public schools shall and skills needed to	teach, challenge and support every sti	ident to realize his or her maximum po	otential and to acquire the knowledge
A. Identify money denominations, services and material resources available as trade-offs within the home, school and community.	A. Justify the decision to use or not use resources based on scarcity.	 A. Analyze current conservation practices and their effect on future renewable and non-renewable resources. Refuse Reduce Reuse Recycle 	A. Evaluate the impact of family resource management on the global community
B. Define the components of a spending plan (e.g., income, expenses, savings).	B. Know the relationship of the components of a simple spending plan and how that relationship allows for managing income, expenses and savings.	B. Explain the responsibilities associated with managing personal finances (e.g., savings, checking, credit, noncash systems, investments, insurance).	B. Analyze the management of financial resources across the lifespan.
C. Explain the need for shelter for the purpose of safety, warmth and comfort.	C. Describe the adaptability to meet basic human needs of the different types of housing available (e.g., single home, apartment, mobile home, shelter, recreational vehicle, public housing).	C. Delineate and assess the factors affecting the availability of housing (e.g., supply and demand, market factors, geographical location, community regulations).	C. Analyze the relationship among factors affecting consumer housing decisions (e.g., human needs, financial resources, location, legal agreements, maintenance responsibilities).
 D. Explain consumer rights and responsibilities. To be safe To be informed To be heard To choose To redress 	D. Analyze information in care instructions, safety precautions and the use of consumable goods as a demonstration of understanding of consumer rights and responsibilities.	D. Explain how consumer rights and responsibilities are protected (e.g., government agencies, consumer protection agencies, consumer action groups).	D. Evaluate the role of consumer rights and responsibilities in the resolution o a consumer problem through the practical reasoning process.

F. Des ider goo clot tech tran	scribe criteria needed to ntify quality in consumer ods and services (e.g., food, thing, furniture, home hnology, health care, asportation, services). Intify the services that communities wide for individuals and families.	 E. Explain the principles of child labor laws and the opportunity cost of working by evaluating the advantages and disadvantages of holding a job while a teenager. F. Explain practices to maintain and/or repair consumer goods and services. G. Identify the public and nonpublic services that are available to serve families within the community. 	F.	Compare the influences of income and fringe benefits to make decisions about work. Evaluate different strategies to obtain consumer goods and services. Analyze how public, nonpublic and for-profit service providers serve the family.	E.	annual gross and taxable income and reporting requirements (e.g., W-2 form, Income tax form). Compare and contrast the selection of goods and services by applying effective consumer strategies.

11.2	2. Balancing Family, Work and	d Community Responsibility		
	11.2.3. GRADE 3	11.2.6. GRADE 6	11.2.9. GRADE 9	11.2.12. GRADE 12
	nnsylvania's public schools shall a I skills needed to	teach, challenge and support every stu	ent to realize his or her maximum poten	ntial and to acquire the knowledge
	Examine consequences of family, work or career decisions.	A. Contrast the solutions reached through the use of a simple decision making process that includes analyzing consequences of alternative solutions against snap decision making methods.	A. Solve dilemmas using a practical reasoning approach • Identify situation • Identify reliable information • List choices and examine the consequences of each • Develop a plan of action • Draw conclusions • Reflect on decisions	a. Justify solutions developed by using practical reasoning skills.
	Identify the importance of routines and schedules while differentiating between short and long term goals.	B. Deduce the importance of time management skills (e.g. home, school, recreational activities).	B. Know FCCLA action planning procedure and how to apply it to family, work and community decisions.	B. Evaluate the effectiveness of action plans that integrate personal, work, family and community responsibilities.
	Indicate the benefits and costs of working as an individual or as a team member and of being a leader or follower.	C. Classify the components of effective teamwork and leadership.	C. Assess the effectiveness of the use of teamwork and leadership skills in accomplishing the work of the family.	C. Analyze teamwork and leadership skills and their application in various family and work situations.
	Explain the importance of organizing space for efficiency and a sense of comfort (e.g., desk space, classroom space).	D. Identify the concepts and principles used in planning space for activities.	D. Analyze the space requirements for a specified activity to meet a given need (e.g., family room, home office, kitchen).	D. Based on efficiency, aesthetics and psychology, evaluate space plans (e.g., home, office, work areas) for their ability to meet a variety of needs including those of individuals with special needs.

- E. Analyze the effectiveness of technology used for school and home in accomplishing the work of the family (e.g., security, entertainment, communication, education).
- F. Explain daily activities that fulfill family functions in meeting responsibilities (e.g., economic, emotional support, childcare and guidance, housekeeping, maintaining kinship, providing recreation).
- G. Identify the life stages by identifying their developmental task (e.g., infant, pre-schooler, school age, teen-age, adult, senior citizen).
- H. Identify how to resolve conflict using interpersonal communications skills.
 - Speaking and listening
 - I messages
 - Active listening
 - Checking for understanding
 - Following directions
 - Empathy
 - Feedback

- E. Describe the role of technology within a community in maintaining a safe and healthy living environment (e.g., safety, hospitals, waste treatment, water quality, schools).
- F. Compare and contrast how different cultures meet family responsibilities within differing configurations (e.g., new parent, just married, single adult living alone, "empty nest", retired, senior citizen).
- G. Identify the characteristics of the stages of the family life cycle (e.g., beginning, expanding, developing, launching, middle years, retirement, variations).
- H. Describe positive and negative interactions within patterns of interpersonal communications.
 - Placating
 - Blaming
 - Distracting
 - Intellectualizing
 - Asserting

- E. Evaluate the impact of technology and justify the use or nonuse of it (e.g., safety, cost/budget, appearance, efficiency).
- F. Contrast past and present family functions and predict their probable impact on the future of the family.
- G. Explain the influences of family life cycle stages on the needs of families and communities (e.g., a large number of young families needing day care, fixed income senior citizens, school age children).
- H. Justify the significance of interpersonal communication skills in the practical reasoning method of decision making.

- E. Assess the availability of emerging technology that is designed to do the work of the family and evaluate the impact of its use on individuals, families and communities.
- F. Assess the relationship of family functions to human developmental stages.
- G. Hypothesize the impact of present family life-cycle trends on the global community (e.g., over population, increase in an aging population, economic base).
- H. Evaluate the effectiveness of using interpersonal communication skills to resolve conflict.

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11	.3. Food Science and Nutrition					
	11.3.3. GRADE 3	11.3.6. GRADE 6		11.3.9. GRADE 9		11.3.12. GRADE 12
	nnsylvania's public schools shall and skills needed to	teach, challenge and support every stu	den	t to realize his or her maximum po	oten	tial and to acquire the knowledge
A.	Know the production steps that a food travels from the farm to the consumer.	A. Demonstrate knowledge of techniques used to evaluate food in various forms (e.g., canned, frozen, dried, irradiated).	A.	Explain how scientific and technological developments enhance our food supply (e.g., food preservation techniques, packaging, nutrient fortification).	A.	Analyze how food engineering and technology trends will influence the food supply.
В.	Describe personal hygiene techniques in food handling (e.g., handwashing, sneeze control, signs of food spoilage).	B. Describe safe food handling techniques (e.g., storage, temperature control, food preparation, conditions that create a safe working environment for food production).	В.	Identify the cause, effect and prevention of microbial contamination, parasites and toxic chemicals in food.	В.	Evaluate the role of Government agencies in safeguarding our food supply (e.g., USDA, FDA, EPA and CDC).
C.	Explain the importance of eating a varied diet in maintaining health.	C. Analyze factors that effect food choices.	C.	Analyze the impact of food addictions and eating disorders on health.	C.	Evaluate sources of food and nutrition information.
D.	Classify foods by food group within the food guide pyramid including the serving size and nutrient function within the body.	D. Describe a well-balanced daily menu using the dietary guidelines and the food guide pyramid.	D.	Analyze relationship between diet and disease and risk factors (e.g., calcium and osteoporosis; fat, cholesterol and heart disease; folate and birth defects; sodium and hypertension).	D.	Critique diet modifications for their ability to improve nutritionally-related health conditions (e.g., diabetes, lactose-intolerance, iron deficiency).
E.	Define energy-yielding nutrients and calories.	E. Explain the relationship between calories, nutrient and food input versus energy output; describe digestion.	E.	Analyze the energy requirements, nutrient requirements and body composition for individuals at various stages of the life cycle.	E.	Analyze the breakdown of foods, absorption of nutrients and their conversion to energy by the body.

F. Identify components of a basic recipe (e.g., volume, weight, fractions, recipe ingredients, recipe directions, safety techniques).	F. Analyze basic food preparation techniques and food-handling procedures.	F. Hypothesize the effectiveness of the use of meal management principles (e.g., time management, budgetary considerations, sensory appeal, balanced nutrition, safety, sanitation).	F. Evaluate the application of nutrition and meal planning principles in the selection, planning, preparation and serving of meals that meet the specific nutritional needs of individuals across their lifespan.
G. Classify foods according to senses (e.g., taste, touch, smell, mouth feel, sight, sound).	G. Describe the physical, biological, and chemical changes that take place in food preparation.	G. Analyze the application of physical and chemical changes that occur in food during preparation and preservation.	G. Analyze the relevance of scientific principles to food processing, preparation and packaging.

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11.4. Child Development			
11.4.3. GRADE 3	11.4.6. GRADE 6	11.4.9. GRADE 9	11.4.12. GRADE 12
Pennsylvania's public schools shall and skills needed to	teach, challenge and support every stu	ldent to realize his or her maximum p	otential and to acquire the knowledge
 A. Identify characteristics in each stage of child development. Infancy/BIRTH TO 1 YEAR Early childhood/1 TO 6 YEARS Middle childhood/6 TO 9 YEARS Late childhood/NINE – 13 YEARS Adolescence/13 – 18 YEARS 	A. Compare and contrast child development guided practices according to the stage of child development.	A. Analyze physical, intellectual and social/emotional development in relation to theories of child development.	A. Analyze current research on existing theories in child development and its impact on parenting (e.g., Piaget, Erikson and prior findings versus new brain development research).
B. Identify health and safety needs for children at each stage of child development. C. Identify the characteristics of a	B. Identify ways to keep children healthy and safe at each stage of child development.	B. Evaluate health and safety hazards relating to children at each stage of child development.	B. Analyze current issues in health and safety affecting children at each stage of child development.
learning environment. D. Identify community resources	C. Identify the role of the caregiver in providing a learning environment (e.g., babysitting, daycare, preschool).	C. Evaluate various environments to determine if they provide the characteristics of a proper learning environment.	C. Analyze practices that optimize child development (e.g., stimulation, safe environment, nurturing caregivers, reading to children).
provided for children.	D. Identify child-care provider considerations.E. Identify characteristics of quality	D. Analyze the roles, responsibilities and opportunity for family involvement in schools.	D. Analyze plans and methods to blend work and family responsibilities to meet the needs of children.

E. Explain how the home and community help a person learn to read, write and	literature for children and other literacy enhancing activities.		
compute.		E. Explain how storytelling, story reading and writing enhance literacy development in children.	E. Identify practices that develop the child's imagination, creativity and reading and writing skills through literature.

XXXIII. GLOSSARY

Aesthetics:	Appreciation of and responsive to beauty.

CDC: Center for Disease Control

Child-care provider considerations:

Criteria to use in evaluating child care facilities. These include well-trained and highly motivated staff,

pleasant sanitary surroundings, variety in toys and supplies, ratio of staff to children.

Child development stage: An age range with similar growth characteristics: infancy, early childhood, middle childhood, late

childhood, adolescence.

Consumer responsibilities: The need to interpret information in care instructions, safety precautions and proper use of consumable

goods as a user of goods and services.

Consumer rights: The guarantee to be safe, the right to be informed, to be heard, to choose consumer education and to

redress as a user of goods and services.

Dietary guidelines: A set of seven recommendations developed by the United States Department of Agriculture and Health

and Human Services to help healthy people over age two know what to eat to stay healthy.

Developmental tasks: Changes in the thinking and behavior of individuals over time.

Empathy: The action of understanding another's thoughts, feelings and behaviors.

EPA: Environmental Protection Agency

FCCLA Action planning procedure: The decision making process endorsed by the Family, Career and Community Leaders of America, involving five steps:

- 1. Identify concerns brainstorm and evaluate, narrow choices to workable ideas.
- 2. Set your goals write what you want to accomplish as an achievable objective.
- 3. Form a plan who, what, when, where and how.
- 4. Act carry out the plan.
- 5. Follow up determine if your goal was met and create an improvement plan.

FDA: Food and Drug Administration

Family, Career and: Community Leaders

Of America: Vocational student organization sponsored by Family and Consumer sciences' classrooms.

Food guide pyramid: A visual tool used to help people plan healthy diets according to the Dietary Guidelines for America.

Guided practices: Interaction with a child based on age appropriate developmental principles.

I message: A statement containing three parts:

1. The situation

- 2. How it makes the speaker feel
- 3. What will happen if it continues.

Kinship: Relationships or relatives.

Leadership skills: The ability to:

- Use resources
- Delegate authority
- Communicate effectively
- Assess composition of group
- Determine and rank goals
- Evaluate consequences.

Microbial contamination: Most common food contaminants causing foodborne illnesses.

Nutrient: A basic component of food that nourishes the body.

Opportunity cost: The tangible and non-tangible trade-off necessary to procure a good or service or to take an action.

Practical reasoning: A decision making process unique because of its emphasis on relationships and involving six

steps:

1. Identify situation to be solved

2. Identify reliable information

3. List choices and examine consequences

4. Develop plan of action

5. Draw conclusions

6. Reflect on decisions.

Redress: To set right or remedy.

Toxic chemical: Contaminants found in natural, environmental and pesticide residue forms that are poisonous to the body.

Scarcity: The lack of provisions for the support of life.

Team work skills: The ability to:

Collaborate

• Cooperate

• Set community goals

• Reach consensus.

Trade-off: Exchange of goods, services or monies.

USDA: United States Department of Agriculture