

CLASS 10 HOME SCIENCE

Topic	Learning outcomes	Innovative/art integration, Experiential learning, Inter-disciplinary action.
Unit I. Human growth and development II a) Play (birth-5 years), role of play in growth & development of children. Types of play- active, passive, natural, serious and exploratory, selection of play material for children.	Student will be able to know about the importance of play in physical, emotional, social, cognitive, motor development. He will be able to know different types of play i.e. active, passive, natural, serious, exploratory etc. Also he will gather the knowledge of selecting play material for 0-5 years child .	Art integration : Play have an effective role in strengthening the curiosity, imagination, sense of wonder and have positive skills on success. Experiential learning: Student will acquire the knowledge related to play through experience and reflection. Also he will be ready to face win and lose Inter-disciplinary action: Maths: For example, how many types of play? Science: What are the different roles of play in growth and development in the body? English: All the content Activity: Make a suitable play material for children between 0-5 years
b) Childhood (3 to 11 years)- Age specific milestones- Physical, motor, social, emotional, cognitive and language	Child will be able to understand the concept of age, specific milestones	Art integration: Different milestone help child to develop academic and social skills that are foundations for future learning, behavior and health. Also helps children to focus on learning life skills, While learning through art, child uses different senses and parts of brain, which help them

c) Adolescents : Special Features- Physical and biological, motor, social, emotional, Cognitive and language	Student will be able to learn about physical, biological, motor, social, emotional, cognitive and language development occurring in teenage.	connect and recall important information Experiential Learning: Experiential learning is significant for child's brain development and learning. The child learn and apply their learning to pass the exams. Fun learning is highly effective method. Inter-disciplinary: Science: Helps child to understand the different parts of the body. Maths: What is the age of early childhood/late childhood What is the weight and height of the child at the age of 3 years etc. English: All the content. Art integration: Different milestone help child to develop academic and social skills that are foundations for future learning, behavior and health. Also helps children to focus on learning life skills, While learning through art, child uses different senses and parts of brain, which help them connect and recall important information Experiential Learning: Experiential learning is significant for child's brain development and learning. The child learn and apply their learning to pass the exams. It helps
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Unit II. Management of Resources: Time, Energy and Money a) Time Management- Definition and Importance	Student will be able to learn about the benefits of time management and how to apply time plans in routine life.	team to struggle academically and socially. Inter-disciplinary: Science: Helps child to understand the development of different parts of the body i.e. physical, biological, motor, social, cognitive, emotional and language. Biology: Development of hormones during development. English: All the content. Activity: List five areas of agreement and disagreement with parents, siblings and friends, and give your suggestions to improve the relationships Art Integration: Learns the art of planning and controlling the time spend on specific activities, to complete more work in less time by lowering stress level and also enhancing performance and satisfaction. Experiential Learning: It helps student to make time management and apply in routine life to make proper use of his/her leisure time and also helps in overcoming distraction. Inter-disciplinary: Physical education: Games in the order of prioritizing, organizing, delegating, strategic planning and problem solving. English: All the content
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b) Time plans- Factors affecting time plan	Student will be able to learn about the factors that effect time plan.	Art Integration: Learns the art of planning and controlling the time spend on specific activities, to complete more work in less time by lowering stress level and also enhancing performance and satisfaction. Experiential Learning: It helps student to make time management and apply in routine life to make proper use of his/her leisure time and also helps in overcoming distraction. Inter-disciplinary: Physical education: Games in the order of prioritizing, organizing, delegating, strategic planning and problem solving. English: All the content Activity: Make a time plan to self for one day. Art integration: Learns the art of how to manage energy in routine life and live stress free life also how to work efficiently. Experiential learning: Live stress free life by managing energy properly thus working properly. Inter-disciplinary: Science: How to save energy? English: All the content
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c) Energy Management: Definition and Importance	Student will be able to learn about the importance of saving energy and working productively	Art integration: Learns the art to overcome fatigue and simplify work in routine life. Experiential learning: Live stress free life by simplifying thus working efficiently. Inter-disciplinary: Science: How to simplify work? English: All the content
d) Fatigue and work Simplification	Student will be able to learn about how to simplify work without getting fatigued.	Art integration: Learns the art to navigate food safety and hygiene. Experiential learning: How to maintain personal hygiene as well as the cleanliness of the equipments to be used and also the knowledge of food storage. Inter-disciplinary: Science: How to manage technology and equipments for making food safe and hygiene. Maths: How many principles of food are there? English: All the content
Unit III. Food and Personal Hygiene		Art integration: Learns the art to navigate food safety and hygiene. Experiential learning: How to maintain personal hygiene as well

a) Principles of hygienic handling and serving of food	Student will learn about the principles of hygiene handling and serving of food by WHO and UNESCO	as the cleanliness of the equipments to be used and also the knowledge of food storage, how to control the pests, rodents and insects in kitchen. Role of sunlight in kitchen Inter-disciplinary: Science: How to manage technology and equipments for making food safe and hygiene. Maths: How many principles of food are there? English: All the content
b) Hygiene in kitchen	Student will learn about how the maintain hygiene in kitchen	Art integration: Learns the art to navigate food safety and hygiene. Experiential learning: How to maintain personal hygiene as well as the cleanliness of the equipments to be used and also the knowledge of food storage, how to control the pests, rodents and insects in kitchen. Role of sunlight in kitchen Inter-disciplinary: Science: How to manage technology and equipments for making food safe and hygiene. Maths: How many principles of food are there? English: All the content

c) Personal hygiene of food handler	Students will learn about personal hygiene and equipments	Art integration: Learns the art to navigate food safety and hygiene. Experiential learning: How to maintain personal hygiene as well as the cleanliness of the equipments to be used and also the knowledge of food storage, how to control the pests, rodents and insects in kitchen. Role of sunlight in kitchen Inter-disciplinary: Science: How to manage technology and equipments for making food safe and hygiene. Maths: How many principles of food are there? English: All the content
d) Hygiene during food storage		Art integration: integrating nutritional education through art, improving healthy eating habits and choices through creative, encouragement. Art of saving money and energy Experiential learning: Will implement about the knowledge of nutritive value of food to the family members and others . ICMR introduced helps in knowing about particular quantity of nutrients in a particular food. Inter-disciplinary:

d) Use of food groups in planning balanced meal for self and family	Student will learn about the importance of basic food groups recommended by ICMR	Art integration: Learns the art to be alert while purchasing and does not get cheated by the manufacturers and the producers.. Experiential learning: Will implement the knowledge and alertness while purchasing the required goods Inter-disciplinary: Science: Knowledge about technology and equipments, so that they do not get cheated English: All the content Art integration: Learns the art to recognize adulteration in food and will have awareness of different standardized marks Experiential learning: Can easily recognize adulterants added in different food stuffs and can use simple methods for detecting the adulterants. Inter-disciplinary:
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Unit V. Food Safety and Consumer Education a) Problems faced by Consumer- Price variation, poor quality, Faulty weights and measures, Non-availability of goods, Misleading information, Lack of standardized products b) Food adulteration : Concept, adulterants (Metanil yellos, Argemone, Kesari dal) and harmful effects of	Student will be able to understand and how to use basic food group for self and family Child will be able to learn the problems faced by consumers, malpractices done by traders to the consumers in a different way. Will get the knowledge of standardized marks.	Science: Will have the knowledge of equipments and chemical used. Maths: What are the type of adulterants? PFA was passed in 1964. English: All the content Activity: Write a report on any five malpractices you have observed in the market and write your responsibilities as consumers in each context. Art integration: Learns the art to tackle the problems faced by consumers. Experiential learning: Less chances of getting cheated by the shopkeepers. Also will carry knowledge about standardized marks and symbols for different products (Original/fake) Inter-disciplinary: Political Science: What are consumer rights? What are consumer responsibilities? What is consumer protection act? Maths: How many consumer rights are there? English: All the content Activity: Prepare a slogan/poster to create awareness on consumer education.
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these adulterants on human health		
c) Food Safety Standards-FSSAI (2006)	Student will be able to gather the knowledge about adulteration in different eatables (intentional/non-intentional)	Art integration: Learns the art of cleaning/laundering clothes by different ways. Also have art to recognize the fibers and cleans accordingly. Experiential learning: Can differentiate easily which cloth should be washed or dry cleaned. Also apply different methods for doing so. Inter-disciplinary: Science: How to use equipments and chemical reagents. Maths: What quantity of reagents or chemicals to be used? English: All the content Art integration: Learns the art of removing common stains from clothes by using different methods. Experiential learning: Will apply knowledge in day to day life for removing stains from clothes Inter-disciplinary: Science: How to use equipments and chemical reagents. Maths: What quantity of reagents or chemicals to be used? English: All the content

Unit VI. Care and Maintenance of Fabrics and Apparel a) Cleaning and finishing agents used in routine care of clothes	Child will be able to learn about different food safety standards.	Art integration: Learns the art of storing clothes in a better way according to their thread, yarn, fiber etc.. Experiential learning: Will apply knowledge of storing different clothes according to fabric, keeping in mind the conditions and requirements the cloth needs. Inter-disciplinary: Science: How to store clothes by using different chemicals etc. Maths: Quantity of chemicals to be used English: All the content. Activity: Remove stain from white cotton fabric: Curry, paint, ball pen, ink, lipstick, tea and coffee.
b) Stain Removal	Child will able to learn about the cleaning and finishing agents that are used in routine care of clothes	

c) Storage of cotton silk, wool and synthetics	Students will be able to learn how to remove different stains from different type of clothes Students will be able to learn about how to store cotton, silk, woollen, synthetic cloths in a proper way so that they do not get damaged.	
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