

BUDHA DAL PUBLIC SCHOOL, PATIALA

LESSON PLAN OF SUBJECT GENERAL SCIENCE

CLASS IV

TOPIC: FOOD AND DIGESTION (Lesson no. 1)

Sub Topic : Food groups, Nutrients, Carbohydrates ,Proteins, Vitamins and minerals, Roughage, Water, Balanced Diet, Digestion, Good Eating, habits for proper digestion, cooking food and food preservation.

Objectives : At the end of the chapter, the students will be able to:

- Understood why food is needed for energy, repair and growth of the body.
- List out different food groups.
- Define balanced diet and its importance.
- Ways by which food can be preserved.
- Define digestion and process of digestion.

Prior Knowledge Testing : Teacher will find out from the students:

- What do they have for lunch?
- How much water they drink in a day?
- How many of them order junk food when they go out for meals?

Vocabulary : Children will learn important definitions with the help of key terms given in the end of the chapter e.g. Nutrients, Digestion etc.

Important Spellings : The teacher will give a certain number of difficult words from the chapter before starting question/answer.eg. Nutrients, obesity, digestion, carbohydrates etc.

Explanation with innovative methods, links and resources :

- Students will make a model of human digestive system (Art integrated activity)
- Link <https://youtube/-H-bxH50VK>

Activity:

- Collage Making: Each student will bring one or two pictures of food items containing different nutrients. Then they will paste them on the charts with headings – Carbohydrates, fats, proteins, vitamins and minerals.
- Children will be asked to chew a piece of plain chapatti into a fine paste. It will begin to taste sweet. By this activity, students will understand better the change of starch in chapatti into simple sugars.

Procedure :

- The different sub-topics will be discussed with the help of smart class modules.
- Children will be taken to laboratory for the activities mentioned above.
- Different methods of cooking will be explained. e.g. boiling, steaming, deep frying, roasting, baking etc.
- Different methods of food preservation like, canning, refrigeration etc. will be explained to the students.

Recapitulation : A quick recap of the chapter will be given with the help of points to remember, keywords and book exercises.

Integration with other domains : Children will enhance their knowledge of different sub-topics with the help of art integrated activities, charts, models and audio-visual aids.

Learning Outcomes : The children were able to :

- Understand the importance of balanced diet.
- Learn healthy food habits.
- Learn the different ways for the preservation of food (like skill values)

- Assessment** :
- Regular revision work will be done with the help of practice worksheets.
 - Project will be given from this chapter.
 - This chapter will be taken up in the first weekly test.

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CLASS IV

TOPIC: TEETH AND MICROBES (Lesson no. 2)

- Objectives** : At the end of the chapter, students will be able to:
- Understand the importance of the teeth in digestion and speech.
 - Describe the kinds of teeth and their functions.
 - Understand the kinds of a teeth.
 - Understand the structure of a tooth.
 - Describe the different types of microbes.
- Prior knowledge testing** : A teacher can initiate a class discussion by asking questions:
- Who is a dentist?
 - How many teeth do you have in your mouth?
- Vocabulary** : Children will learn important definitions with the help of key terms given in the end of the chapter e.g. tooth decay, microbes, microscope, plaque, gingivitis, pathogens etc.
- Importance spellings** : The teacher will give a certain number of difficult words from the chapter for test of spellings in the end. For eg. Incisors, canines, molars, enamel, dentine, gingivitis, plaque, microbes, microscope etc.
- Explanation with innovative methods, links and resources** :
- Link: <https://youtu.be/XG67i4cnx9Q>
 - A guest lecture by a dentist on oral hygiene.
- Student's participation** : Activity: Enactment on different types of teeth incisors, canines, premolars, molars. Students will explain the number, structure and functions of these.

Procedure	: <ul style="list-style-type: none"> • The sub-topic – sets of teeth (Permanent set and milk teeth), kinds of teeth, structure of a tooth, tooth decay, care of teeth, microbes, uses of microbes will be discussed with the help of demonstrations, smart class modules, models/charts showing the structure of tooth. • The teacher will emphasize on the cleanliness of teeth and explain the effects of tooth decay.
Recapitulation	: A quick recap of the chapter will be given with the help for multiple choice questions, fill ups, short question/answers and key terms.
Integration with other domain	: Children will develop interest to learn the different topics with the help of charts, model of tooth, demonstration (how to brush your teeth) and audio-visual aids.
Learning outcomes	: <p>The children were able to:</p> <ul style="list-style-type: none"> • Learn about the replacement of milk teeth by the permanent teeth. • Oral hygiene. • Ill effects of eating too many chocolates, sweets etc.
Assessment	: <ul style="list-style-type: none"> • This chapter will be taken up in the first weekly test. • Regular oral and written revisions will be done with the help of home assignments.

TOPIC: Safety and first aid (Lesson no. 3)

Objectives	: The students will be able to know safety rules, preventive measures <ul style="list-style-type: none">• About safety at home, bathroom safety, safety around the home, safety at school, on the road.• Some tips on personal safety.• About safety for burn, for cut, nose bleed, insect bite.
Prior Knowledge Testing	: <ul style="list-style-type: none">• What types of clothes we should wear while working in kitchen?• Why should not we touch electrical switches?
Vocabulary	: Important terms will be explained. For eg. First aid- the immediate help given to an injured person before the arrival of the doctor.
Important Spellings	: Difficult words will be given- electric shock, geyser, medicines, detergents, chemicals, antiseptic etc.
Explanation with innovative methods, links and resources	: <ul style="list-style-type: none">• Placards on traffic signs will be made• Enactment will be done by children on various types of first aids (burns, insect bite).• Link https://youtu.be/-IDz5fw5Cou
Procedure	: The different traffic rules will be discussed. The causes, prevention of safety at home, school, on road will be discussed. First aid for burns and insect bites will be explained.
Student's Participation	: Students will do enactment in case of insect bite.
Recapitulation	: Lesson will be read and explained. New words, exercises, question /answers will be discussed.
Integration with other domains	: Children will enhance their knowledge of various sub topics with the help of art integrated activities, charts, and audio-visual aids.

**Learning
Outcomes**

- : The children were able to:
- Understand safety at home, school, and on road.
 - First aid.

Assessment

- : Regular revision work will be done with the help of true/false, oneword answer, give two examples etc. The chapter will be taken up in the first periodic test.

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CLASS IV

TOPIC: Matter and its states (Lesson no. 5)

- Objectives** : At the end of the chapter, the students will be able to comprehend the following concept
- Define the term matter
 - Describe the states of matter
 - Demonstrate change of states of matter
 - Distinguish between solute, solvent and solution
- Prior Knowledge** : Teacher will find out from the students
- Testing:**
- What is the similarity in duster, water and air in the balloon?
 - Name two liquids?
 - What will happen if we put sugar and salt in water?
- Vocabulary** : Children will learn important definitions with the help of key terms given in the end of the chapter e.g. matter, solute, solvent, fluidity, solution, volume etc.
- Important Spellings:** : Spellings of difficult words will be done e.g. molecules, fluids, definite, evaporation, condensation, solvent, solute, solution etc.
- Explanation With Innovative Methods, Links and Resources** :
- The sub topics will be explained with the help of smart class modules, videos and activities in the science lab.
 - Link: <https://youtube/5d4zsufENE>
- Procedure** :
- Reading will be done.
 - The different sub topics will be discussed with the help of smart class modules.
 - Children will be taken to laboratory for the activities
 - Matter and its states will be discussed

	<ul style="list-style-type: none"> • How states of matter are interchangeable will be explained.
Student's Participation	<p>: Students will read the chapter. Following activities will be done</p> <ul style="list-style-type: none"> • Show the arrangement of molecules in solid, liquid and gas with the help of round bindis. • Take five glasses with labels A, B, C, D, E. Pour water in each glass. Add salt, sand, turmeric, sugar and tea leaves respectively in the glasses. Notice which of these mix in water and which do not.(soluble or insoluble)
Recapitulation	<p>: A quick recap of the chapter will be given with the help of points to remember, keywords and book exercises</p>
Integration with other Domain	<p>: Children will enhance their drawing skills with the help of diagrams of arrangement of molecular and other art integrated activities</p>
Learning Outcomes	<p>: The students were able to:</p> <ul style="list-style-type: none"> • understand the meaning of matter and its states • solids dissolve in liquids other do not • how matter is interchangeable
Assessment	<p>: </p> <ul style="list-style-type: none"> • Regular revision work will be done with the help of practice worksheets. • This chapter will be taken for weekly test no. 2 and half yearly exam • Dictation test will be conducted.

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TOPIC: SOIL (Lesson no. 6)

- Objectives** : At the end of the chapter, the students will be able to comprehend the following:
- Understand the term ‘weathering, humus’
 - Different types of soil and their uses
 - The meaning of soil erosion and conservation of soil
- Prior Knowledge testing** : Teacher will find out from the students:
- Where do plants grow?
 - What do plants take from the soil?
 - What is present in the soil?
 - Name some animals that live in the soil.
- Vocabulary** : Children will learn important definitions with the help of key terms e.g. weathering, horizon, deforestation, soil conservation, soil erosion etc.
- Important spellings** : Spellings of difficult words will be done e.g. Weathering, humus, clayey, loamy, erosion, deforestation, conservation etc.
- Explanation with innovative methods, links used resources** :
- The sub-topics will be explained with the help of smart class modules, models, charts and activities done in Science Lab.
 - Link: <https://youtube/fen96rX6Reg>
- Procedure** :
- Reading and explanation will be done.
 - The different sub-topics will be discussed by showing samples of sandy, clayey and loamy soil.
 - Importance of different types of soil will be discussed.
 - The meaning and causes of soil erosion will be discussed with the help of smart class modules.

Student's participation	<ul style="list-style-type: none"> • Ways to conserve soil will be explained. <p>: Children will be taken to the laboratory to do the activity</p> <ul style="list-style-type: none"> • Take a glass jar and put some garden soil. Add water, stir it well and keep it undisturbed for 15 minutes. Children will notice the layers of soil.
Recapitulation	<ul style="list-style-type: none"> • A quick recap of the chapter will be given with the help of points to remember, key terms and book exercises. • Children will collect samples of sandy, clayey and loamy soil.
Integration with other domain	: Children will enhance their knowledge regarding humus. They will enhance their drawing skills by using art-integrated activities.
Learning outcomes	<p>: The students were able to:</p> <ul style="list-style-type: none"> • Understand the formation of soil. • Meaning of humus, soil erosion and conservation of soil. • Learn different types of soil.
Assessment	<p>: </p> <ul style="list-style-type: none"> • Regular revision work will be done with the help of home assignments. • This chapter will be taken in half yearly exam. • Dictation test will be conducted.

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LESSON PLAN OF SUBJECT GENERAL SCIENCE
CLASS IV TERM 1

TOPIC: GREEN PLANTS: The Food Producers (Lesson no. 7)

- Objectives** : At the end of the chapter, the students will be able to comprehend the following concepts:
- Collect, identify and sort leaves of different plants.
 - Describe the parts of a leaf.
 - Enumerate the functions of leaves.
 - Describe process of photosynthesis.
 - Special features of non green plants, parasitic plants, desert plants.
 - Interdependence of plants and animals.
- Prior Knowledge** : Teacher will find out from the students:
- Testing**
- Which part of the plant prepares food?
 - In which part of the plant, food is stored?
 - Why is leaf called ‘the food factory’ of the plant?
- Vocabulary** : Children will learn important definitions with the help of key terms given in the end of the chapter e.g. photosynthesis, stomata, chlorophyll, parasitic, food chain etc .
- Important Spellings** : Spellings of difficult words will be done, e.g. chlorophyll, petiole, lamina, stomata, photosynthesis, glucose, starch, moulds ,parasitic etc.
- Explanation with innovative methods, links and resources** :
- Topics will be explained with the help of smart class modules, videos and activities in science lab.
 - Link <https://youtu.be/hPLWBTuUiicj>
- Procedure** :
- Reading of the chapter will be done.

	<ul style="list-style-type: none"> • Different sub-topics will be discussed with the help of smart class modules. • Children will be taken to laboratory to show the activities (test for starch).
Student's Participation	<p>: • Student's will read the chapter.</p> <p>• Following activities will be done</p> <ol style="list-style-type: none"> 1. Children will collect pictures of non green plants, parasitic plants, desert plants, and paste them in their scrapbook. They will also write their names and few sentences about them. <p>Fun to do -Children will take a slice of bread. Sprinkle some water on it. Then put in plastic bag and close it. After 3 -4 days ,the students will observe the growth of mould over it.</p>
Recapitulation	<p>: A quick recap of the chapter will be given with the help of points to remember, key terms and book exercises.</p>
Integration with other domains	<p>: Children will enhance their drawing skills with the help of diagrams of parts of leaf and process of photosynthesis, mushroom, cactus.</p>
Learning Outcomes	<p>: The children were able to:</p> <ul style="list-style-type: none"> • Understand the process of photosynthesis. • Interdependence of plants and animals. • Some unusual plants like cactus, moulds and mushrooms and dodder plant.
Assessment	<p>: • Oral and written revision work will be given</p> <ul style="list-style-type: none"> • This chapter will be taken in half yearly exam. • Dictation test will be conducted.