

NIOS lesson adaptation project

by  **Embrace** volunteers
The power within you!

(A community initiative of Harchan Foundation Trust)

CHAPTER -12

HOUSING

This project is aimed at supporting children with different needs. Information provided is adapted to the best of knowledge by the volunteers. For complete information please refer to the NIOS resources in <https://www.nios.ac.in/online-course-material/secondary-courses.aspx>.



KWL Chart

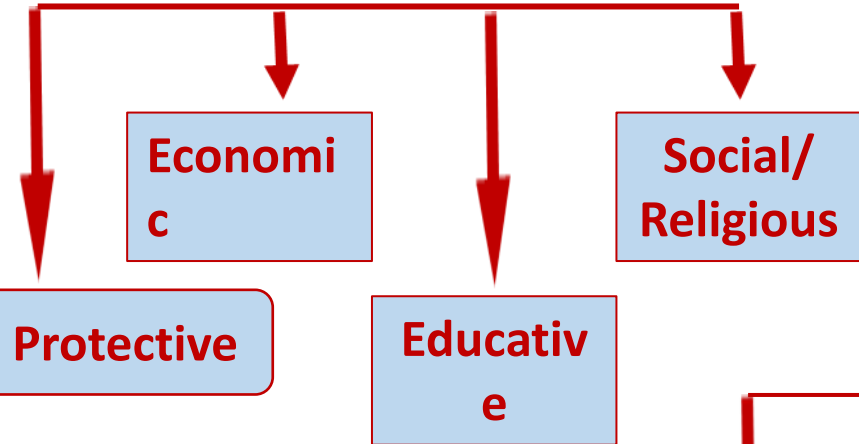
K - What does the child KNOW	W - What does the child WANT to know	L - What has the child LEARNT
	Functions of a home	
	Site selection for a house	
	How to make a home more comfortable and functional	
	Different types of rooms in a house	
	Types of cleaning	
	Disposal of human excreta	

Keywords and meanings

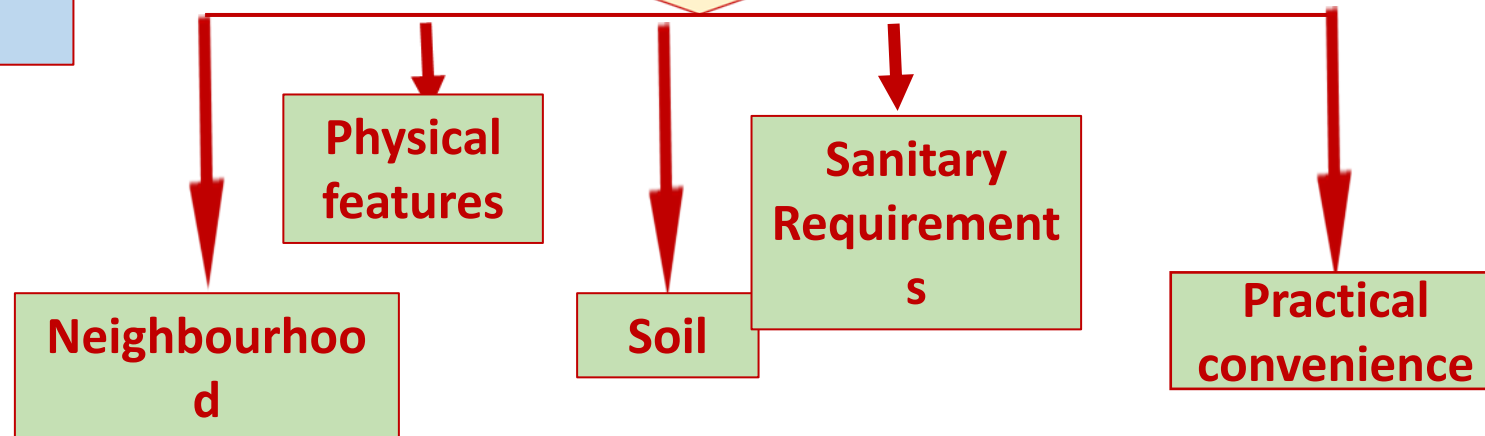
KEYWORD	MEANING
Socioeconomic	Relating to or concerned with the interaction of social and economic factors.
Gravel	Small, rounded stones, often mixed with sand.
Ventilation	The provision of fresh air to a room, building.
Accommodate	Provide lodging or sufficient space for.
Human Excreta	Waste product of human digestive system.
Septic tank	A underground tank in which sewage is collected .
Latrine	A toilet
Water closet	A room containing a flush toilet.

HOUSING

FUNCTIONS



SITE SELECTION



How to make a house more comfortable and functional

HOUSING

Types of rooms

Livingroom

Bedroom

Bathroom

Kitchen

Types of cleaning

Daily cleaning

Weekly cleaning

Spring or seasonal cleaning

Disposal of human excreta

Western closet

Septic Tank

Pit latrine

IMPORTANCE OF LIVING IN A HOME

- ❖ Home provides security and belongingness.
- ❖ It provides for physical and emotional needs of all the family members.
- ❖ For children, it provides education in basic values like respect for elders, love and affection to others, health, religion, discipline and responsibility.
- ❖ It is a place for loving and celebrating together.



Functions of a Home

Protective

- ❑ Provides security
- ❑ Protects from weather
- ❑ Provides shelter
- ❑ Protects from animals, dacoits and enemies

Economic

- Value in terms of money
- Raises socioeconomic status
- Gives pride and prestige in the society
- Can be used to perform some income generating activity

Educative

- Helps in development of personality and basic family values,
- Helps in development of life skills like sharing, caring, empathy, etc.

Social/religious

- Promotes interaction within and outside the family.
- Provides sense of belongingness
- Transfer of values, customs from generation to generation

SITE SELECTION FOR A HOUSE

NEIGHBOURHOOD; Must be a developed area which has electricity, roads, drainage, post office, banks, schools and markets.

PHYSICAL FEATURES:

- Must be in an open area
- not close to heavy traffic areas
- avoid low lying areas

SOIL:

- ~ For the foundation of the house to be strong, soil should be firm.
- ~ Loose soil, sandy and gravel type of soil are not suitable for construction.



SITE SELECTION FOR A HOUSE

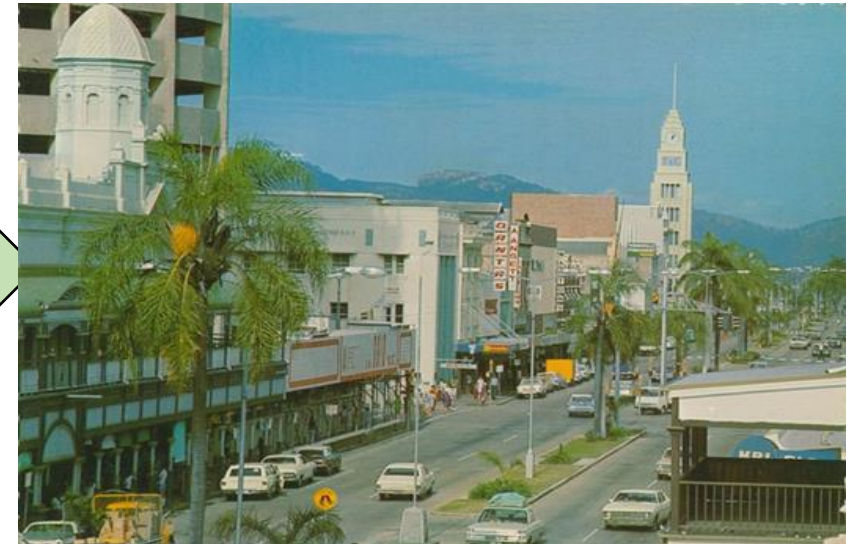
SANITARY REQUIREMENTS:

- ~ Vacant plot filled with garbage is not suitable for construction.
- ~ It should be filled with fresh and firm soil.
- ~ It should be elevated to the level of the road outside.



PRACTICAL CONVENIENCE:

- > To meet our daily needs and practical convenience like:
Market, school, bank and hospital



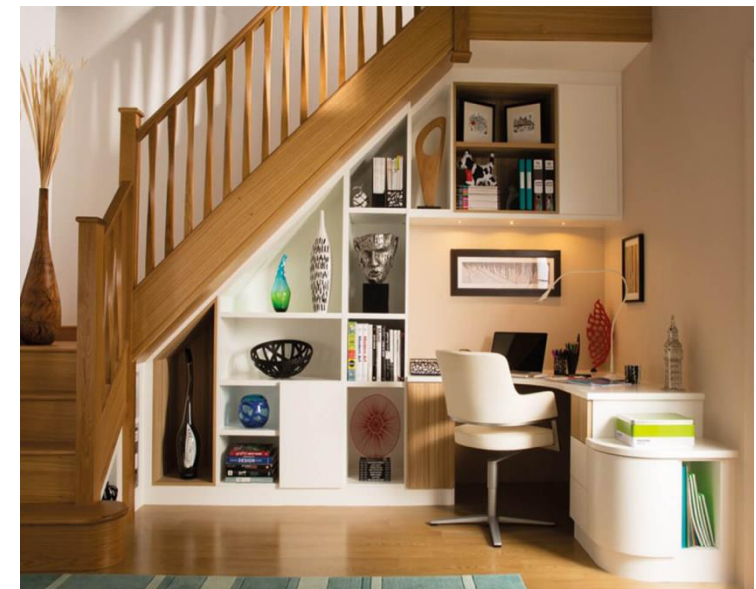
Means to make a home more comfortable and functional:

- Make a list of all the activities which take place in each room
- Mark space for every activity.
- Combine activities like dining with kitchen, study with bedroom.
- Avoid over-crowding of furniture.
We may use multi-purpose furniture like sofa-cum-bed, etc.



Means to make a home more comfortable and functional:

- Some pieces of furniture can be used as storage units and room dividers.
E.g., drawing room can be partitioned with shelves on either side.
- Storage can be provided in the furniture itself.
E.g., bed with boxes, tables with drawers, etc.
- The space below the staircase can be converted into a storeroom or a toilet.



DIFFERENT TYPES OF ROOMS IN A HOUSE

LIVING ROOM

- ❖ Near the entrance of the building.
- ❖ In small houses combine it with dining room.
- ❖ Furniture is arranged in such a manner that people can talk to each other comfortably.



BEDROOM

- Should offer privacy and free from noise.
- Should have an attached bathroom.
- A rectangular bedroom can accommodate other furniture and storage.



DIFFERENT TYPES OF ROOMS IN A HOUSE

BATHROOM

- ~ Floors should be non-slippery and easy to clean.
- ~ One wall should be exposed to outside for proper light and ventilation.



KITCHEN

- Good drainage system.
- Sanitation wire-mesh doors.
- One wall should be exposed to outside for proper light and ventilation.
- Sufficient storage space above and below the work counter.
- Light colours on the wall.



Maintaining hygiene for healthy living

The aspects which are important in maintaining hygiene for healthy living are :

☐ Light

- ✓ Natural lighting: Receive from natural source I,e sun
- ✓ Artificial lighting :Receive from artificial source I,e from tube light blubs etc

☐ Ventilation

Circulate fresh air and driving out the foul air in order to freshen up the Interiors of house.

- ✓ Windows should be kept open for circulation of free air.
- ✓ Cross ventilation is desirable for ventilation.

☐ Sanitation:

Sanitation

Sanitation refers to a system which includes the capture, storage , transport and disposal or reuse of human excreta and waste water.

The most important ones are :

- ✓ Maintaining cleanliness.

 - Cleaning is basic to maintaining hygiene

- ✓ Removal of garbage: Segregate and dispose.

 - Dry waste : Dust by mopping, covers, papers

 - Wet waste: Kitchen waste, vegetable and fruit peels, egg shells

- ✓ Disposal of excreta

TYPES OF CLEANING

Daily cleaning

- Sweeping and mopping of floors;
- Dusting surfaces;
- Cleaning of rugs and carpets;
- Making beds in the morning;
- Tidying up objects in every room.

Weekly cleaning

- Different surface areas of Bathrooms, toilets and wash basins;
- Removing cobwebs;
- Shelves of kitchens;
- Door handles and other fittings;
- Mirrors and pictures;
- Polishing of wooden surfaces and other areas.

Spring or seasonal cleaning

- Airing mattresses, cushions, pillow, rugs and carpets in sunlight
- Washing curtains;
- Thorough cleaning of rooms after removing all furniture;
- Cleaning the store room;
- Cleaning and polishing of wooden work and getting any repairs done.

Cleaning of different surface and materials

Surfaces	Material required
Floors	Broom ,brush, soap, detergent water, phenyl ,oil and lime
Kitchen and bathroom tiles	Soap, vinegar, mild hydrochloric acid
Plastic mugs, bucket, mug and chairs	Luke warm soap or detergent water, scrubber, vinegar, soda
Glass/ window mirrors	Moist new paper pad and vinegar
Metal tap/ brass taps	Lemon vinegar tamarind hot soapy water and salt
Wood surface	Soft cloth and vinegar

DISPOSAL OF HUMAN EXCRETA

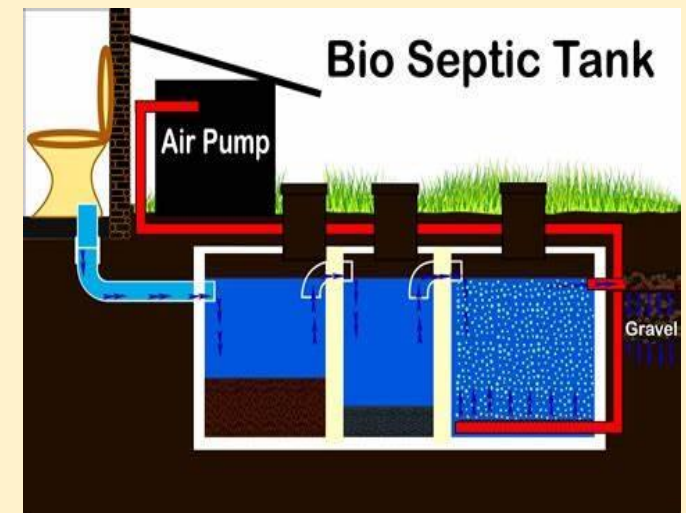
Water closet:

- ❖ Human excreta is removed through the water carriage system.
- ❖ It is connected to a sewer through a pipe.
- ❖ This system is the most sanitary method for removal of human excreta.



Septic tank:

- ❑ These can be seen in semi-urban areas or where sewerage system has not been laid.
- ❑ Household drains are connected to this.
- ❑ “Sulabh Shauchalaya” toilets are based on this principle.



Advantages of septic tank

- ❖ Hygiene.
- ❖ Low cost and easy to construct.
- ❖ Does not pollute surface or ground water.
- ❖ Free from foul smell.
- ❖ Maintenance is easy and cost low.
- ❖ Needs less water for flushing.
- ❖ Does not require cleaning of pits.
- ❖ The sludge from the pits is a good manure.
- ❖ Gases are dispersed into the soil.
- ❖ Eliminates mosquitoes, insects and fly breeding.

Soakage pit

- These are very important for areas where there is no drainage system.
- Cheap and easy to construct.
- Pit is 2 mt deep and 1 mt wide.
- 1/3 of portion is filled with coarse stones , middle portion with small stones and upper most with sand .
- Cover it with earth and grass.
- Waste water from house is led through drainage pipe to soakage pit.
- The waste gradually percolates and soaks away into the ground from the pit

DISPOSAL OF HUMAN EXCRETA

Pit latrine:

- A pit is dug which should be more than 3 metres deep to prevent flies from sitting.
- The soil should be sandy to allow the liquid portion to drain away.
- This is ideal only in case of temporary use for few days.
- There can be a concrete platform around the opening of the hole and raised foot stands.
- The opening of the hole should be covered with a lid.
- The system is not very hygiene as it pollutes the ground water.



List of Volunteers

Embrace-NIOS lesson adaptation project

(A community initiative of Harchan Foundation Trust)

Mentors (Volunteers) : Banu Arjun, Hema Bhatia, Indumathi , Kalpana Sankar, Priya Balasubramanian, Renu Goyal, Sowmya Srikumar, Viraja.

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"volunteers don't necessarily have the time, they just have the **HEART**."

~ elizabeth andrew

Thank You
Volunteers.

U R Ls of images used in this presentation

Slide No.	Subject	U R L
1	Opening	http://sr.photos1.fotosearch.com/bthumb/CSP/CSP721/k17825901.jpg
7	Happy home	https://cybernag.files.wordpress.com/2015/06/joint-family-2-www-youtube-com.jpg?w=1200
9	Market	https://media.timeout.com/images/resizeBestFit/100401615/660/370/image.jpg
	Physical features	https://www.adb.org/sites/default/files/styles/content_media/public/content-media/8471-sharpoorji-pallonji-housing-development-project.jpg
10	Site selection	https://www.queenslandplaces.com.au/sites/queenslandplaces.com.au/files/styles/large/public/exhibits/PC1043.jpg
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11	kitchen	https://hgtvhome.sndimg.com/content/dam/images/hgtv/fullset/2013/9/9/2/hdivd1410_kitchen-dining-area-after_s4x3.jpg.rend.hgtvcom.1280.960.jpeg
	Sofa cum bed	https://www.mobelhomestore.com/content/images/thumbs/0007057_vienna_sofa_cum_bed_b.jpg
12	Room divider	https://homesfeed.com/wp-content/uploads/2015/10/White-finished-open-book-rack-as-room-divider-.jpg
	Below stairs	https://thearchitecturedesigns.com/wp-content/uploads/2019/05/5-space-under-stairs-design-ideas.jpg

Slide No.	Subject	U R L
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	bedroom	https://architecturebeast.com/wp-content/uploads/2016/04/20-Small-Bedroom-Ideas-That-Will-Leave-You-Speechless-featured-on-Architecture-Beast-05.jpg
14	bathroom	https://www.amazadesign.com/wp-content/uploads/Small-Bathroom-Remodel-Ideas-using-Minimalist-Interior-with-White-Bathtub-and-Plastic-Shower-Curtain-in-Contemporary-Style.jpg
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16	Water closet	https://4.imimg.com/data4/RO/UG/MY-13165303/water-closet-250x250.jpg
	Septic tank	https://th.bing.com/th/id/OIP.jEQkaJ6fnA3puGnVW34goAHaE8?pid=Api&rs=1
17	Pit latrine	https://d2lo9qrcc42lm4.cloudfront.net/Images/News/contentLarge/Pit-Toilet-2.JPG?mtime=20180814155642
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THANK YOU !