

19/04/22
Wednesday

HOUSES AND
BRICKS

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* Bricks are made of clay.

* clay: * It is fine and sticky soil which becomes hard after baking.

* we can find it on the beds of lakes and rivers.

Kiln: * The furnace or oven used to bake brick is called a kiln.

* It is a big chamber with fire burning inside it.

Firing: The process of baking bricks is called firing.

Why we bake the bricks?

* To make it strong and durable

Q: 5 who are the people who contribute in making of a house?

Name the tools used by each of them.

<u>Ans:</u>	<u>People who contribute in making of house</u>	<u>Tools used by them</u>
①	Mason	Trowel, Plumb line
②	carpenter	Saw, plane, gimlet drill hammer
③	Electrician	Screwdriver, Soldering iron and plier
④	Plumber	Plier, wrench, pipe cutter and hammer
⑤	Painter	Brushes, Paints spray guns Rollers.

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Constructing A House

* Both skilled and unskilled labourers needed to build a house

Architect

* Architect draws the design of the house

* plan: The design of the house

* It shows the layout of the house with its rooms, doors, windows and open areas.

* Mason: To build the pillars, walls and roof of the house

Tool

Trowel → To spread mortar over the bricks.

Plumb line → Helps in making the wall straight

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Carpenter: * Makes wooden doors and windows

* He also fits the cupboards and windows.

Electrician: He installs electric wires and fixes plugs, switches, lights and fans.

Q: Why the handles of electric tools are made of rubber?

Ans: To protect the electrician from an electric shock.

Plumber: He fits water pipes, taps and sanitary wares.

Painter: He paints the wall.

Types of Bridge :

→ Beam bridge

→ Arch bridge

→ Suspension bridge

→ Cantilever bridge

→ Bamboo bridge

Beam Bridge :

* It is the oldest type of bridge.

* Beam is a horizontal structure rests on support on either end.

[* Build of steel and concrete and also pillars to support]

Arch Bridge :

* Semi circular structure.

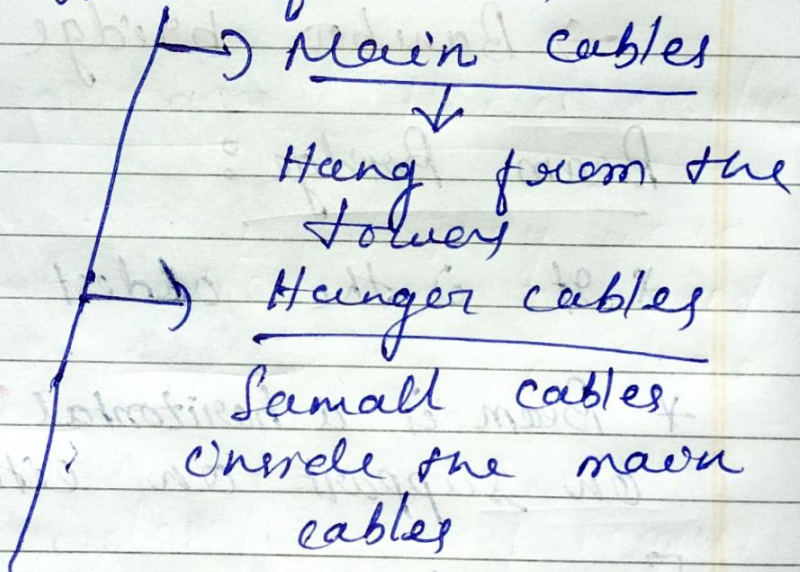
* Stronger than beam bridges.

Suspension bridge :

* Steel cables are hung from high towers on either side of the bridge.

* Steel cables carry the load of the bridge.

Two types of cables



Cantilever bridge :

* Modified form of the beam bridge.

* It has support only on one end.

Bamboo bridge:

* In villages these bridges are built across small streams.

* Logs of trees are used as pillars.

* wooden pieces are then tied to these pillars with ropes.

Q) Answer these Questions:

① Explain the process of brick-making.

Ans:

Process of brick-making

① clay is dug up and ground into small even particles.

② water is mixed to make it soft

③ soft clay is put into the brick-making machines to give the shape.

④ Soft bricks are dried.

⑤ Dried bricks are baked inside the furnace.

Now the brick is ready which is strong and durable.

② How are houses today different from earlier ones?

Ans:

Houses today

Houses earlier

① They are made of strong and durable materials like bricks and cement.

They were made of mud, bamboo, stone etc.

② They require less repairs.

② They require more often to repair.

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Name the different types of bridges.

Ans,

The types of bridges are :

- Beam bridge
 - Arch bridge
 - Suspension bridge
 - Cantilever bridge
 - Bamboo bridge
-



FUN TO LEARN

A. Give one word for the following.

1. Basic material used to construct houses

Bricks

2. The process of baking bricks firing
3. Mixture of cement, sand and gravel Mortar
4. One who paints the walls of houses Painter
5. The type of bridge which has support only on one end Cantilever bridge

B. Match the following.

Column A

1. Arch bridge
2. Architect
3. Golden Gate Bridge
4. Kiln
5. Granite tiles

Column B

- a. furnace to bake bricks (4)
- b. semi-circular structure (1)
- c. designs buildings (2)
- d. used to make the floor (5)
- e. suspension bridge (3)