











Plaster of Paris

Grade and Board: VI Tamil Nadu

Video Type: BHLP

Subtopic code: 20SBTN06CHE05TH002

Timings: 0:18:42 - 0:20:33

Start: The walls that you...

End: ...water molecule, right?

Duration: 0:01:51



Plaster of Paris

Take notes



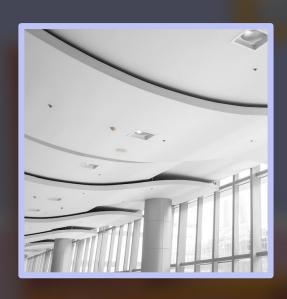
White powdery solid, readily forms a paste with water

Chemical name:
Calcium sulphate hemihydrate

Caso₄. $\frac{1}{2}$ H₂O

Uses of Plaster of Paris

Take notes motes









Decorative ceilings

Chalk

Fracture cast

Sculptures

Explain the uses of plaster of Paris.



Explain the uses of plaster of Paris.

Take notes **m**

Plaster of Paris is used:

- 1. in making black board **chalks**
- 2. as a cast for **setting fractured bones**
- 3. for making casts for **statues and toys**
- 4. in construction, for making decorative ceilings



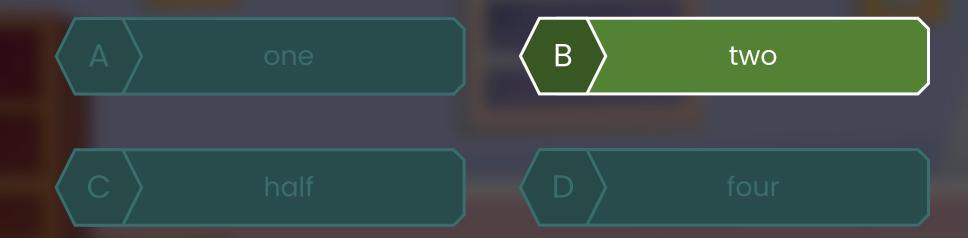


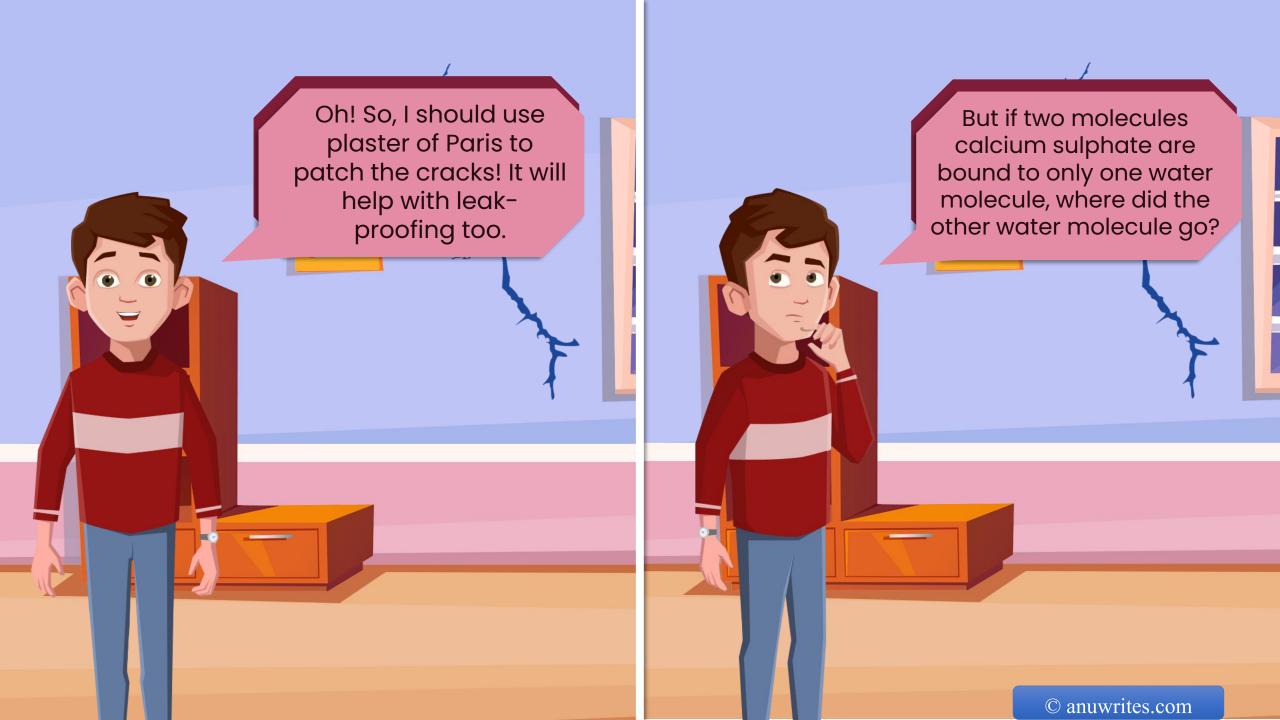
In plaster of Paris, one water molecule is bonded to _____ calcium sulphate molecules.





In plaster of Paris, one water molecule is bonded to _____ calcium sulphate molecules.







How Plaster of Paris Loses Water?

Take notes **m**



140-180 °C



Gypsum (CaSO₄.2H₂O)

Plaster of Paris (CaSO₄. $\frac{1}{2}$ H₂O)





Gypsum

Grade and Board: VI Tamil Nadu

Video Type: BHLP

Subtopic code: 20SBTN06CHE05TH002

Timings: 0:27:45 - 0:28:58

Start: The mineral gypsum...

End: ...because it's dihydrate.

Duration: 0:01:13



Gypsum

Take notes



Mineral of calcium

Chemical name:
Calcium sulphate dihydrate

Chemical formula: CaSO₄. 2H₂O

Uses of Gypsum

Take notes m











Making plaster of Paris

Additive in fertilisers

Ingredient of cement

Artificial dentures





Gypsum is a mineral made of calcium _____.

A > sulphate

B hemihydrate

C > chloride

D > dihydrate



Gypsum is a mineral made of calcium _____.

A > sulphate

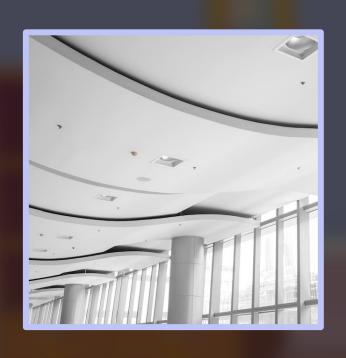
B > hemihydrate

C > chloride

D > dihydrate



Select the applications in which gypsum is directly or indirectly used.



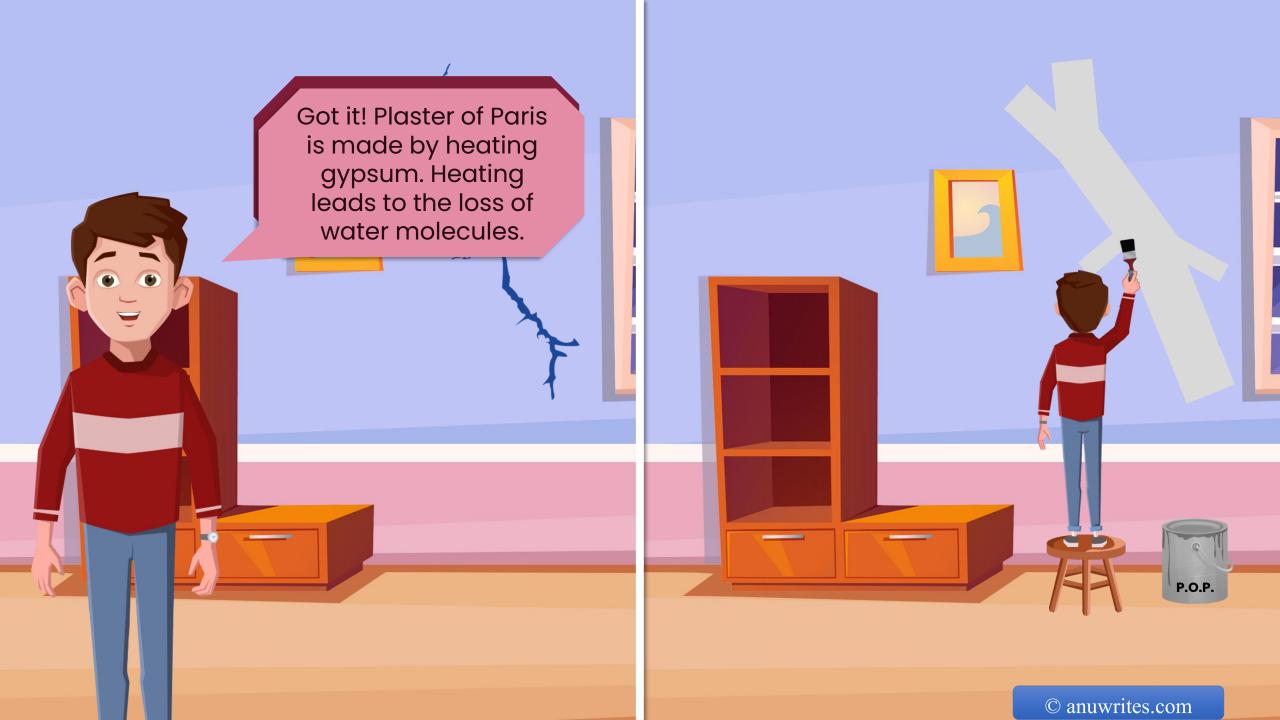




Decorative ceilings

Beauty products

Fertilisers



Doubt Board











Adhesives

Grade and Board: VI Tamil Nadu

Video Type: BHLP

Subtopic code: 20SBTN06CHE05TH002

Timings: 0:06:36 - 0:09:55

Start: An adhesive is...

End: ...two surfaces to bind.

Duration: 0:03:19



Adhesives

Take notes

Sticky substances that can bind things together



Cello tape



Cement



Glue sticks















Types of Adhesives

Grade and Board: VI Tamil Nadu

Video Type: BHLP

Subtopic code: 20SBTN06CHE05TH002

Timings: 0:10:04 - 0:12:43

Start: Just like natural...

End: ...metals or wood.

Duration: 0:02:39



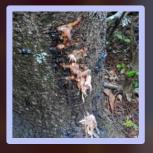
Types of Adhesives

Take notes **m**

Natural

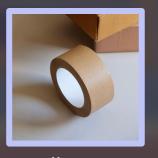
Synthetic













Tree sap

Flour paste

Beeswax

Cello tape

Glue stick

Adhesive film

Less availability

Low strength

Easy to produce

Easily available

High strength

Difficult to produce

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Assertion (A): Natural adhesives cannot be used to join heavy surfaces like metals.

Reason (R): Natural adhesives are not readily available.

Both A and R are true, and R is the correct explanation for A.

Both A and R are true, but R is not the correct explanation for A.

A is true, but R is false.

Both A and R are false.















Phenol

Grade and Board: VI Tamil Nadu

Video Type: BHLP

Subtopic code: 20SBTN06CHE05TH002

Timings: 0:52:34 - 0:54:17

Start: This is how phenol...

End: ...C6H5OH, okay?

Duration: 0:01:43



Phenol





White crystalline solid, absorbs moisture from the surroundings

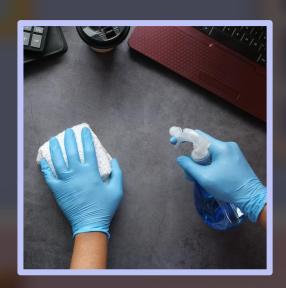
Chemical name: Carbolic acid

Chemical formula: C₆H₅OH

Uses of Phenol

Take notes **2**









Antiseptic

Disinfectant

Mouthwash

Hard plastics





_____ phenol can be used as a disinfectant and antiseptic.

A > Concentrated

B > Dilute

C > Solid

D > Liquid



_____ phenol can be used as a disinfectant and antiseptic.

A Concentrated
B Dilute
C Solid
D Liquid

Mention any three physical properties of phenol.



Mention any three physical properties of phenol.

Take notes **m**

- 1. Phenol exists as a **white crystalline powder but absorbs moisture** from the surroundings.
- 2. Phenol solution is **colourless**, but **changes to red** in the presence of dust.
- 3. Phenol should be **handled with great care** because it causes immediate white blistering to the skin.





To-do List

Patch bedroom wall cracks



Fix the kitchen cabinet handle



Clean the wash basin









Epsom Salt

Grade and Board: VI Tamil Nadu

Video Type: BHLP

Subtopic code: 20SBTN06CHE05TH002

Timings: 0:39:23 - 0:40:32

Start: When we look at...

End: ...seven H2O

Duration: 0:01:09



Epsom Salt





Chemical name:

Magnesium sulphate
heptahydrate

Chemical formula: MgSO₄. 7H₂O

Uses of Epsom Salt

Take notes **2**









Beauty products

Health supplements

Decorative items

Additive in fertilisers





Which amongst the following elements is **not** present in Epsom salt?

A
Magnesium

B
Hydrogen

C
Sulphur

D
Nitrogen



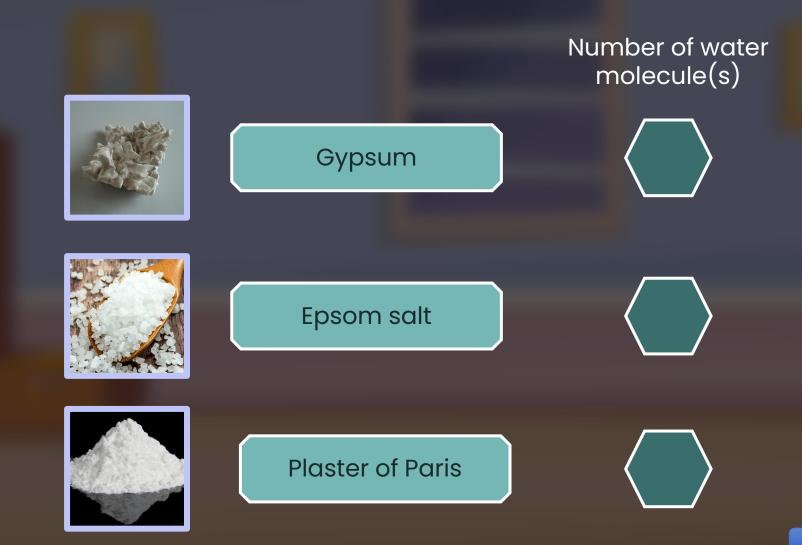
Which amongst the following elements is **not** present in Epsom salt?

A Magnesium
B Hydrogen

C Sulphur
D Nitrogen



Write the number of water molecule(s) present in each molecule of the given substances.





Doubt Board



Homework Time!



Practice is the way to excellence!

Please do finish your homework on time.