

How to Make Science Materials? = Chemistry =

-By Using Local Materials-

Making Materials CHEMISTRY

1) Gas Jar & Deflagrating spoon



[Materials]

- Glass Bottle
- Wire
- Bottle Cap
- Nail *For making hole

[Making]

1) Make a hole on the bottle cap



2) Take off the plastic beer bottle's inside plastic film



3) Insert the wire



4) Push and fit it.



5) Make a hole on the bottle's cap.



6) Set deflagration spoon on the big bottle's cap



2) Candle Holder



[Materials]

- Candle
- PET bottle
- Can *Adjust the height

[Making]

1) Cut the top and bottom of PET bottle.

2) Wrap it with tape like below



[Tips]

- If the candle become short, put the can into the holder. So you can adjust the height.



3) Tong & Crucible



[Materials]

- Can
- Wire

[Making]

1) Bend the wire.

*Hang Mg on it.



[Tips]






- * If you use old Mg. Cut it like below.
- *Surface has already MgO.










- *You can get inside (Mg). It is easy to burn.



Inside come out

<p>4) Washing Bottle</p>  <p>[Materials] -Glass Bottle -Wire -Bottle Cap</p>	<p>[Making]</p> <p>1) Make a hole on the cap, and insert a rivet * Attach each material with bond.</p> 	<p>2) Put it on the PET bottle</p> 	<p>[Tips]</p> <p>Rivet</p>  <p>Bond</p> 
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<p>5) Dropper</p>  <p>[Materials] -Straw -Tape</p>	<p>[Making]</p> <p>1) Heat the end of the straw. After that push and close the end.</p>	<p>2) Wrap it with tape</p> 	
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<p>6) Test Tube Stand</p>  <p>[Materials] -Cardboard -Plastic Sheet -Clip -Scotch tape (wide)</p>	<p>[Making]</p> <p>1) Draw lines on the cardboard 2) Put the scotch tape and reinforce the cardboard</p>  <p>3) Bend a plastic film and make holes on it.</p> 	<p>*Hole is not circle Like a "*" shape</p>  <p>4) set some test tubes</p> 	<p>[Tips]</p> <p>Scotch tape (wide)</p> 
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7) Magnet



[Materials]

- Broken Speaker
- Broken Motor

[Making]

- *Broken speaker
- *Magnet is backside of its.



- 1) Insert a - screwdriver. And you can get only Magnet part.



- 2) You can get Magnet part



Magnet part

- *You can also use the motor



- Open the motor, so you can get the magnet inside of its.



8) Funnel & Filter Paper



[Materials]

- PET bottle
- Toilet Paper

[Making]

- 1) Cut the upper side of PET bottle.



- 2) Insert toilet paper in it.



- 2) Put water in it, and fit paper and funnel



- 3) Pour mixture(Chalk & water)



9) M.G. Indicator

[Materials]

- Morning Glory (Flower)

[Making]

1) Get the Morning Glory Flower.



2) Dry it under the sunlight



3) Add the water or boiled water, when you use it.



4) This purple solution can be used for the acid-base indicator



[Tips]

*Indicator color

Strong acid: Red
Weak acid : Pink
Neutral : Purple
Weak base: Blue
Strong base: Green



10) Separatory Funnel



[Materials]

- PET bottle
- Rivet
- Tube
- * From broken power strip
- Bond

[Making]

1) Get the tube from broken power strip



2) Pull out small cord in the tube.

*Only big tube is used.

*Small cord has copper wire.

It can be used for Clip motor.



3) Set it on the PET bottle cap with rivet.

*See a wash bottle. Same as that one.



4) Set it on the half of PET bottle

