**Group 5 IV - Quasar**

MOLDED SCENTED CANDLE  
  
Materials and Supplies

* paraffin wax
* candle mold (metal, plaster, silicon rubber mold, etc.)
* polyethylene
* stoves (gas/electric stove)
* wick for candle (cotton wick)
* double boiler container
* technical dye (oil soluble color)
* storage racks
* essential oil (synthetic/organic oil)
* wick holder (bamboo stick)
* laboratory thermometer
* stirrer (wood/bamboo)
* weighing scale (10-kilo capacity)
* blade cutter (big size)
* scissors

PROCEDURE

1. Prepare the mold. If you are using metal mold, make sure the mold has a mouth wider than the base so that your candle can slide out easily. Oil the inside of the mold with vegetable oil.

2. Prepare the candlewick. Adjust the size of the wick to the diameter of the candle and the fusibility of the candle material.

The following is a rough guide to the selection of wick size:

Size of Wick Candle Diameter

6 – 9 ply Â½” diameter  
12 – 15 ply 1″ diameter  
17 – 25 ply 2″ diameter  
27 – 35 ply 3″ diameter

3. Melt the wax. Weigh 90 parts of paraffin wax and 10 parts polyethylene wax and place in the double boiler container. Wax is inflammable and should not be melted over direct heat. A well-ventilated workshop should be maintained.

4. Heat gently until all contents have melted and blended together. Allow the mixture to cool to about 70Â°C (160Â°F) and add scent and color. Stir to mix thoroughly.

5. Pour the wax slowly into the mold. Leave a little space at the top edge.

6. Insert the wick into the center of the mold. Wrap the other end of the wick around the bamboo stick. This holds the wick in the center of the wax while it cools.

7. Remove the candle from the mold. If candle doesn’t slide out from metal mold. Immerse the mold in a very hot water for a few seconds. This will slightly melt the outside of the candle and it should slide out.

SCENTED CONTAINER CANDLE

Materials and Supplies

* paraffin wax
* glass container/ceramic
* wick (nylon wick)
* stoves (gas/electric stove)
* technical dye (oil soluble)
* double boiler container
* essential oil (organic/synthetic)
* wick holder (bamboo stick)
* laboratory thermometer
* stirrer (bamboo/wood)
* weighing scale
* blade cutter
* scissors

PROCEDURE

1. Prepare candlewick. Dip the desired length of wick in the melted wax. Remove and hold it taut while it dries and hardens for a minute.
2. Fix a wick base or sustainer to one end of the wick. (Sustainer – a little round metal; flat and with hole in the middle.)
3. Prepare the container. Glue the wick base/sustainer into the bottom of container with hot glue and let it dry.
4. Wrap the other end of the wick around a bamboo stick and lay across the mouth of the mold in order to hold the wick in place while the wax hardens.
5. Melt the wax. Weigh 100 part of pure paraffin wax and place in the double boiler container.
6. Heat gently until wax has melted. Allow the mixture to cool to about 80oC and add scent and color, stir to mix thoroughly.
7. Pour the wax slowly into container. Leave 1″ space at the top of the edge.