

MEDICATION MAKING FOR THE CLASSROOM



Lab Safety



- Goggles
- Face masks
- Hair nets
- Gloves
- Plenty of Space
- Lots of supervision

MAKING AN OINTMENT



- Please follow along with the handout
- All items are pre-weighed due to time constraints
- Nothing is toxic
- Let's go through this one step at a time
- Clean your area when you are finished
- Large garbage can is available for refuse

Making ointments:

Supplies: petrolatum jelly as a base

Distilled water (for wetting powders)

Use any of the following powders: Corn starch, baking powder, zinc oxide powder (can be bought on-line and can actually be used as sunscreen or diaper ointment), flour, etc.

Parchment paper or an ointment slab

Spatula or tongue depressors

50 gm ointment jar (or 60 dram prescription vial that can be obtained at a local retail

Pharmacy for about a quarter-have kids pick them up as part of project or work with the pharmacist to give you a good price on an entire case) Dixie cups work too-just use saran wrap and a rubber band to close it

Compounding record

Coloring agent: colored powder (avail at pocket nurse, PSL pharmacy services, etc) Add colored powder to dry powder mix and blend well; or food coloring (if using food coloring, the food coloring will have to be added after the powder is made damp with the distilled water)

Fake prescription/order : Make up an order for a fake patient

Make a 10% ointment. Have the students figure out the math for 50gm of ointment. (total active ingredient (powder) will be 5gm)

Step-by step

Students need to figure the math for the project and have it checked by the teacher

Students will weigh out the different ingredients and put them into small Dixie cups or other container provided

Students need to weigh out empty 50gm ointment jar and record the weight.

Students will add 1.5ml of distilled water to the “active ingredient” (powder) and mix thoroughly with a spatula on the parchment paper. (If using powdered coloring agent, students should blend the powders together before adding the water)

Once the powder is blended, add the petrolatum jelly a fraction at a time. The petrolatum should be mixed in using the spatula or tongue depressor in a scoop and smush action until well blended.

Transfer the “medication” into the 50gm ointment jar and put a label on it with correct information.

Weigh the ointment jar with the finished product in it and subtract the weight of the jar when it was empty. The final product should weigh 50gm +/- 3% (48.5gm-51.5gm)

Label the product

NAME OF YOUR SCHOOL (PHARMACY)

Today's Date

Rx #

Doctor name and phone number

Patient name:

Directions for Use:

Name and strength of product:

Quantity

Expiration date

of refills