

First Year Student
Potions Glass

– Student Handbook –



PROPERTY OF:

Amortentia (Love Potion)

Ingredients:

- ∴ Horklump Juice (3oz)
- ∴ Hemlock Essence (3oz)
- ∴ Fizzing Whizbees



Directions:

1. Mix equal parts Horklump Juice and Hemlock Essence.
2. Sprinkle in Fizzing Whizbees.
3. Perform the "Incendio" spell over the mixture, making the correct motion with your wand.

4. Drink up!

* Note: This is the ONLY edible potion in the book. Enjoy!



APPENDIX B:



BADGE REQUIREMENTS

Congratulations on completing your First Year Student Potions Class!

IN DOING SO YOU HAVE ALSO MET ALL THE REQUIREMENTS FOR THE BROWNIE GIRL SCOUT HOME SCIENTIST TRY-IT.

BADGE REQUIREMENTS:

1. **BE A KITCHEN CHEMIST:** YOU MADE A FIZZY LOVE POTION DRINK USING CARBON DIOXIDE.
2. **CREATE STATIC ELECTRICITY:** YOU MADE ELECTRIC CORNSTARCH (ELECTRO ELIXIR) TO OBSERVE WHAT HAPPENED WHEN A STATIC CHARGE WAS INTRODUCED TO A NEUTRAL CHARGE.
3. **DIVE INTO DENSITY:** YOU MADE A HOMEMADE LAVA LAMP (FORGETFULNESS POTION). THE WATER AND OIL HAD DIFFERENT DENSITIES AND DIDN'T MIX!
4. **MAKE SOMETHING BUBBLE UP:** YOU MADE A TRUTH SERUM, IN WHICH THE ACID AND BASE MIXING MADE A BUBBLY VOLCANIC ERUPTION!
5. **PLAY WITH SCIENCE:** WE HAD FUN WITH SCIENCE BY MAKING SLIME (CERBERUS SNOT) AND DISAPPEARING INK.

BADGE PURPOSE:

WHEN YOU HAVE EARNED THIS BADGE, YOU WILL BE ABLE TO SEE SCIENCE ALL AROUND YOU.

APPENDIX A: POTIONS INGREDIENTS

You can make potions in the Muggle world too! Just use these everyday items as substitutes for our magical ingredients:

- ∴ Basilisk Venom ➡ White Vinegar
- ∴ Crushed Dragon's Bones ➡ Baking Soda
- ∴ Dandelion Root ➡ Cornstarch
- ∴ Dragon's Blood ➡ Food Coloring
- ∴ Fizzing Whizbees ➡ Pop Rocks Candy
- ∴ Flitterbloom ➡ Borax
- ∴ Flobberworm Mucus ➡ Elmer's Glue
- ∴ Hemlock Essence ➡ Lemon-Lime Soda
- ∴ Horklump Juice ➡ Fruit Punch
- ∴ Moondew ➡ Vegetable Oil
- ∴ Purified Water ➡ Water
- ∴ Unicorn Horn Powder ➡ Glitter
- ∴ Valarian Sprigs ➡ Alka-Seltzer Tabs
- ∴ Worm Guts ➡ Liquid Dish Soap



NOTES

HOW DOES IT WORK?

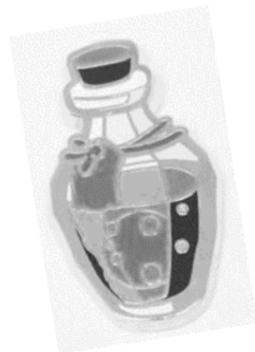
THE SECRET BEHIND THE FAMOUS “POPPING” OF POP ROCKS CANDY IS PRESSURIZED CARBON DIOXIDE GAS (CO₂). EACH OF THE TINY LITTLE CANDY PEBBLES CONTAINS A SMALL AMOUNT OF THE GAS. WHEN THEY ARE INTRODUCED TO MOISTURE AND BURST FREE FROM THEIR CANDY SHELLS, THESE TINY GAS BUBBLES MAKE THE POPPING SOUND YOU HEAR.

ADDITIONAL NOTES:

Electro Elixir

Ingredients:

- ∴ Dandelion Root (1/4c)
- ∴ Moondew (1/4c)
- ∴ Balloon



Directions:

1. Add Moondew to Dandelion Root and stir until it the mixture thickens..
2. Blow up the balloon and tie it.
3. Statically charge the balloon using your hair or robes.
4. Place the charged balloon close to the mixture of Moondew and Dandelion Root. Once the mixture jumps toward the balloon, move the balloon away slowly.
5. Repeat as many times as you want!

NOTES

HOW DOES IT WORK?

WRITING A SECRET MESSAGE IN BAKING SODA SOLUTION SLIGHTLY DISRUPTS THE CELLULOSE FIBERS IN PAPER, DAMAGING THE SURFACE. WHEN HEAT IS APPLIED, THE SHORTER, EXPOSED ENDS OF THE FIBERS DARKEN AND BURN BEFORE THE UNDAMAGED SECTIONS OF PAPER. IF YOU APPLY TOO MUCH HEAT, THERE'S A RISK OF IGNITING THE PAPER. THE MESSAGE CAN ALSO BE REVEALED USING GRAPE JUICE, WHICH ACTS AS A pH INDICATOR THAT CHANGES COLOR WHEN IT REACTS WITH THE SODIUM BICARBONATE OF BAKING SODA, [A BASE].

ADDITIONAL NOTES:

Disappearing Ink

Ingredients:

- ∴ Crushed Dragon's Bones (1/4c)
- ∴ Purified Water (2oz)



Directions:

1. Completely mix equal parts Crushed Dragon's Bones and Purified water.
2. Using a makeshift writing tool (like a wand) write your message on white paper and wait for it to dry.
3. To reveal the message, say the spell Reveleo then heat it up over a lightbulb or paint it with grape juice.



NOTES

HOW DOES IT WORK?

WHEN YOU RUB THE BALLOON ON A COARSE SURFACE (LIKE YOUR HAIR), YOU TRANSFER ELECTRONS FROM THE RUBBED SURFACE TO THE BALLOON, GIVING THE BALLOON ADDITIONAL ELECTRONS. THESE NEW ELECTRONS GENERATE A NEGATIVE STATIC CHARGE WHICH ARE ATTRACTED TO THE CORNSTARCH WHICH HAS A NEUTRAL CHARGE.

ADDITIONAL NOTES:

Forgetfulness Potion

Ingredients:

- ∴ Purified Water
- ∴ Valarian Sprig (1, crushed)
- ∴ Moondew (12 oz)
- ∴ Dragon's Blood (10 drops)



Directions:

1. Fill an empty bottle just over halfway with Moondew.
2. Fill the rest with Purified Water, leaving about 1 inch of room at the top.
3. Add a few crushed pieces of Valarian Sprig.
4. Wait 10 seconds and add the rest of the Valarian Sprig.

NOTES

HOW TO STORE CEBERUS SNOT:

KEEP IN IN A SEALABLE PLASTIC BAG, PREFERABLY IN THE REFRIGERATOR TO PREVENT MOLD GROWTH. THE MAIN DANGER TO YOUR CEBERUS SNOT IS EVAPORATION, SO KEEP IT SEALED WHEN YOU ARE NOT USING IT.

HOW DOES IT WORK?

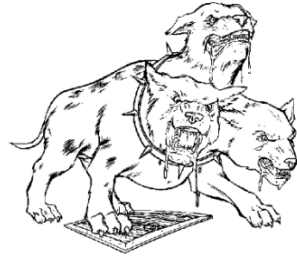
THE GLUE HAS LONG FLEXIBLE MOLECULES IN IT CALLED POLYMERS. THESE POLYMERS SLIDE PAST EACH OTHER AS A LIQUID. BORAX IN WATER FORMS AN ION CALLED THE BORATE ION. WHEN ADDED TO THE GLUE, THE BORATE IONS HELP LINK THE LONG POLYMERS TO EACH OTHER SO THEY CAN'T MOVE AND FLOW AS EASILY, CHANGING IT FROM A LIQUID TO A NON-NEWTONIAN FLUID.

ADDITIONAL NOTES:

Cerberus Snot

Ingredients:

- ∴ Flobberworm Mucus (1/2 c)
- ∴ Flitterbloom (1 tsp)
- ∴ Purified Water (1 1/2 c)
- ∴ Optional: Dragon's Blood (5-7 drops)
- ∴ Optional: Unicorn Horn Powder (3 pinches)



Directions:

1. Mix Flitterbloom in 1c Purified Water until dissolved.
2. In a separate container stir together Flobberworm Mucus and 1/2 c Purified Water. If desired, add Dragon's Blood and/or Unicorn Horn Powder.
3. Combine the two solutions by stirring one into the other.
4. Mix as much as you can, then remove from bowl and finish mixing by hand.

(It's okay if some colored water remains in the bowl.)

NOTES

HOW DOES IT WORK?

THE WATER AND OIL DO NOT MIX AND THE OIL DOESN'T CHANGE COLOR BECAUSE THE FOOD COLORING IS WATER SOLUBLE. THE ALKA SELTZER REACTS WITH THE WATER TO MAKE BUBBLES OF CARBON DIOXIDE. THE BUBBLES ATTACH THEMSELVES TO THE BLOBS OF COLORED WATER AND BRING THEM TO THE TOP OF THE GLASS.

ADDITIONAL NOTES:

Veritaserum (Truth Serum)

Ingredients:

- ∴ Baskilisk Venom (8oz)
- ∴ Crushed Dragon's Bones (4tbsp)
- ∴ Worm Guts (1 tsp)
- ∴ Purified Water (6oz)
- ∴ Optional: Dragon's Blood (6 drops)



Directions:

1. Fill an empty cup $\frac{2}{3}$ full with Purified Water.
2. Mix in Crushed Dragon's Bones and Worm Guts, then give it a good stir.
3. If desired, add Dragon's Blood.
4. Squirt Baskilisk Venom over the mixture and stand back!

NOTES

HOW DOES IT WORK?

A CHEMICAL REACTION HAS OCCURRED! COMBINING THE VINEGAR (AN ACID) WITH THE BAKING SODA (A BASE) RESULTS IN AN ENTIRELY NEW SUBSTANCE, CARBON DIOXIDE (WHICH IS THE BUBBLES OF GAS YOU SEE). IF YOU ADD A LITTLE DISH SOAP THE FOAM BECOMES THICK.

ADDITIONAL NOTES:
