



Commercial I (Film) Photography Film Processing Review

Objective: Students will learn how to develop B&W film.

Learning Concepts: Knowledge, Observation

Photography Vocabulary Words: Developing Tank, Agitation, Graduated Cylinder, Wetting Agent,

1. Get the Equipment needed:

| Equipment | Where to get it |
|----------------------------------|------------------------------------|
| 1. Developing Tank | Check out room |
| 2. Light Tight Lid | Check out room |
| 3. Film Reel (one for each roll) | Peg board at sink |
| 4. Center Column | Back of sink |
| 5. Water Tight Lid | Sink |
| 6. Scissors | Dark Darkroom |
| 7. Thermometer | Sink Faucet |
| 8. Graduated Cylinder | Sink |
| 9. Timer | On wall by sink, on computer table |
| 10. Paper Towels | On wall by sink |

2. Loading the Film: In the Dark Darkroom load the film onto the Film Reel and into the developing tank. See your "Putting the Developing Tank Together" handout.

3. Mixing the Film developer: **Note: Always mix the Chemistry in a Graduated Cylinder before putting it in the Tank.**

- Must have a least 10 oz. of solution per roll of film.
- Make sure temperature is $68^{\circ} + \text{or } - 2^{\circ}$ (66° or 70°)
- In a graduated cylinder mix 1 oz. of the stock developing solution with 9 oz. of water.

4. Set the Timer: Set the timer for 9 minutes. MUST be exact.

5. Pour in the Solution: Now you are ready to pour in the developer solution. Pour it in quickly and then start the timer.

6. Agitation: Do this over the sink.

- Turn the tank and contents upside down 5 times in succession.
- Tap the tank lightly on the edge of the sink.
- Set the tank in the sink.

7. Continue Agitation: Repeat step 6 every minute until the end of the developing cycle.

8. Pour out Developer: After the developing time is up, immediately pour the Developer solution into the sink. We do **NOT** reuse the developer solution.

9. Water Rinse: Next place one of the water hoses into the hole in the Light Tight Lid and rinse out the tank for 30 seconds. Make sure the hose is in the hole and not lying on the tank. This pushes out the left over developer and cleans the film better.

10. Fixer: **Do NOT pour Fixer into the Graduated Cylinders.** The Fixer stops the developing process permanently and makes the film light safe.

- a. Set the timer for 3 minutes.
- b. Fill the tank to the top of the hole with fixer.

Do NOT mix the Fixer with Developer. It destroys the Developer.
If you accidentally put fixer in the developer, even a little, please tell Mr. R. We promise not to yell.

11. Agitation: Agitate the tank like you did for the Developer in step 6.

12. Pouring out the Fixer: **We do reuse the Fixer** so pour it back into the container marked “Fixer”. **Do Not Pour the Fixer down the sink.** Since the film is now light safe you can take the Light Tight Lid off and use it as a funnel to pour the Fixer back into its container.

13. Water Rinse:

- a. Put the Light Tight Lid back onto the tank.
- b. Rinse the film like you did in step 9 for 5 minutes.

14. Wetting Agent: To make the film dry better you will add a liquid called “Wetting Agent”.

- a. Take the Light Tight Lid off.
- b. Pour out some of the water leaving just enough to cover the film.
- c. Add one (1) drop of Wetting Agent.
- d. Turn the Center Column for 30 seconds.

15. Shake the film: Take the film out of the tank and shake out the water into the sink.

16. Drying the Film: Take the film off the reel and hang the film up in the Electric Drying Cabinet for about 10 minutes. Make sure the dryer is on by turning the knob to the 10 minute mark.

17. Cutting the Film: After the film is dry cut the film into strips of 4 or 5. Don't cut them any smaller or your film will be difficult to use in the Darkroom later.

Do not cut negatives into single frames!!!!

18. Negative pages:

- a. Get Negative Pages from the check out room. Use a sharpie pen, from Sue or Mr. R., to write your name on the Negative Pages.
- b. Hold the Negative pages with the 3 hole punched side on the left and the small part at the top.
- c. Slide the negatives into the Negative page with the shiny side facing you.

19. Assignment Notebook: For safe keeping put your Negative Page with the negatives into your Assignment Notebook.

Beg. Photography



Beginning Photography

Film Processing Worksheet

Name- _____

In your own words write out the process for Film Processing using the Memo method you were taught earlier. Be sure to include the equipment used, steps, and times. You may either type out the Memo using Word on the computer or write it out in the space below on the back. If you use Word, print it out then put both this sheet and the print out in your Assignment notebook. Place this sheet in front of the printed out one.