



Photography

Name _____

Do all of the following requirements (1-2)

- _____1. Explain and show examples of at least five basic rules of composition such as: rule of thirds, framing, horizontal and vertical lines, looking into the frame, leading lines, patterns and textures, backgrounds, and depth.
- _____2. Do the following to learn about settings that you can either select or let a camera make automatically:
- _____a. ISO setting or film speed is a measure of sensitivity to light and is rated in 100s. A higher ISO allows use of faster shutter speeds or smaller apertures. Describe the negative impact of using too high an ISO setting or film speed.
- _____b. Aperture is measured in f-stops (smaller f-stop means larger aperture and vice versa). List situations where you would want a smaller or larger f-stop.
- _____c. Shutter speed measured in fractions of a second. List situations where you would want a faster or slower shutter speed.
- _____d. Explain how ISO setting (film speed), aperture f-stop, and shutter speed work together.
- _____e. Explain which settings of ISO setting (film speed), aperture f-stop, and shutter speed would be good choices for the following situations:
- Sunny day
 - Cloudy day
 - Action shot
 - Landscape or scenic shot

- Close-up shot

_____f. The color setting on some cameras allows you to select color, black and white, and perhaps other constrained color palettes. List situations where using black and white instead of color would be a good choice.

Do eight of the following requirements with at least one from each topic (3-19)

Taking Photographs

- _____3. Plan and photograph a Troop, Unit, patrol, or family event. The plan should include lighting, camera settings, and composition rules.
- _____4. Using a tripod and camera with a timer delay, set up a photo shoot for your Troop, Unit, or patrol. Do the following:
- _____a. Create or select a backdrop or background scene; choose some props; and select the Troop, Travel, or Trail uniform for the pictures.
 - _____b. Take a picture of each Trailman, including you, in his uniform.
 - _____c. Take a picture of your whole Troop, Unit, or patrol including you.
- _____5. **Take a set of photos demonstrating the five lines of the Trailman's Oath and how your Troop implements them.**
- _____6. Take a still-life photograph using natural light. Do the following:
- _____a. Set your scene outdoors, arranging a pleasing composition.
 - _____b. Photograph your scene at various times of the day, from three different viewpoints each time.
 - _____c. Describe how the position of the light source (in this case, the sun) affects the mood of the photograph (creating bright or muted highlights, varying lengths of shadows, harsh or soft overall feeling of photo, etc.).

Displaying Photographs

In this topic, you will be using the photographs taken in requirements 3 through 6 for display.

- _____7. Put together a bulletin board or photo album of your photos and display them at a Troop meeting or event.

- _____8. Display some photos at a fair or photo exhibit.
- _____9. Print one of your photos on special craft fabric designed for photos to display your photo on a T-shirt, book cover, or other project.
- _____10. Make a computer photo slide show of your photos or a themed subset of your photos. Add captions to at least three photos. Show the slide show at a Troop meeting or event.

Equipment and Processing

- _____11. Research the different types of digital cameras.
 - _____a. List the features you get for your money and compare models and prices.
 - _____b. Highlight the features needed for your photography interests.
- _____12. Watch a demonstration of darkroom processing live or recorded. Do the following.
 - _____a. Describe darkroom film processing.
 - _____b. Explain the dangers associated with darkroom printing.
- _____13. Experiment with a photo-editing software package. Do the following:
 - _____a. Explain how cropping, clearing red-eye, and deleting undesirable background objects improve photos.
 - _____b. List situations when changing photos in this way could be unethical.
 - _____c. Demonstrate cropping, clearing red-eye, and deleting undesirable background objects.
- _____14. Take a physical or virtual visit to a photo center with your Troop, Unit, patrol, or family. Do the following:
 - _____a. Explain the services offered and how photo printing is done.
 - _____b. Order additional prints from your negatives, memory card, or digital photo library.
 - _____c. On your computer or the photo center website, edit a set of photos to include a frame and a caption on at least one picture. Insert the photos into a photobook.

- _____d. Either print the photo-book or show an electronic copy to your Mentor.
- _____15. Lighting is an important element for every picture. Take a field trip to a photography studio look at the different types of lights and lighting accessories that the photographer uses.
- _____a. Discuss how artificial lighting can be used to enhance photography.
- _____b. Describe when you would need more or less light
- _____c. Experiment by using a camera with a separate flash Unit (or a built-in flash which you can turn on and off) in different lighting situations.

Careers and Service

- _____16. Photography is used in many fields. Interview a professional photographer to find out what steps he took to prepare for this career.
- _____17. Many people have had an impact on the history of photography. Research the contributions of two people and how they have furthered a technological or artistic aspect of photography.
- _____18. Visit a photo gallery or exhibit with your Troop or family.
- _____a. Notice how the lighting affects the mood of a photograph.
- _____b. Select your favorite photo and describe the lighting and how it makes you feel
- _____19. Volunteer to photograph a Sunday school class or residents at a nursing home. Print their portraits to be used in a holiday craft or home directory.

Trail Badge Mentor Signature

Date

Copyright © 2018 by Trail Life USA. All rights reserved. As an owner of *The Trailman's Handbook* AND a registered member of Trail Life USA you may only print portions of this Trail Badge for your own personal use in Trail Life USA. No part of this publication may otherwise be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, scanning, or otherwise, without either the prior written permission of Trail Life USA or authorization through payment of an appropriate per-copy fee.