Aperture and Shutter Speed Experimentation Project

**Curriculum Expectations**

**A1. The Creative Process:** apply the creative process to create interesting photos

**A2. The Elements and Principles of Design:** apply space, balance and rhythm to create photos

**A3. Production and Presentation:** produce photos using Film SLR camera

**B1. The Critical Analysis Process:** demonstrate an understanding of the critical analysis process by examining, interpreting, evaluating, and reflecting on your photos

**C1. Terminology:** demonstrate an understanding of, and use correct terminology when referring to, elements, principles, and other components related to photos

**C2. Conventions and Techniques:** demonstrate an understanding of SLR settings used in the creation of photos

**C3. Responsible Practices:** demonstrate an understanding of responsible practices related to visual arts.

**PART ONE:** For this section you will take FOUR photos capturing movement:

1. 2 Freeze frame (of 2 different subjects)
2. 2 Blurred motion (of 2 different subjects)



**PART TWO:** For this section you will take FOUR photos capturing two different Depths of Field.

1. Blurred background (of 2 different subjects)
2. Full focus (of 2 different subjects)



**Process:**

1. Plan your photos using the planning charts provided – use different settings for each photo (aperture and f/stop) to see what works best. Use the online tool to plan accurate settings for your captures: ***http://camerasim.com/apps/camera-simulator/***
2. Draw thumbnail sketches of the photos you will take, considering elements of a good composition.
3. Go out as a team and capture your photos. Use the Film Tracking Sheet to keep track of what photos on the roll belong to each member of your group.

RUBRIC

Student Name:

Criteria:

Level R = none-insufficient Level 1 = limited Level 2 = somewhat Level 3 = considerably Level 4 = thoroughly

(50 - 59%) (60 - 69%) (70 - 79%) (80 - 100%)

Knowledge and Understanding **(Understanding of concepts, elements, principles, meaning and significance)**

|  |  |  |
| --- | --- | --- |
| • Demonstrates an understanding of Depth of Field (viewed on planning sheets)• Demonstrates an understanding of Capturing Movement (descriptions) | R 1 2 3 4 R 1 2 3 4 | overall mark for category:  /20 |

Thinking and Inquiry **(Planning & Process; Creative thinking skills & processes, critical analysis)**

|  |  |  |
| --- | --- | --- |
| Planning & Process• evidence of thorough proposal/rough drafts/ preliminary planning, documented on rough planning sheets provided• effective teacher-conferencing in a timely mannerProblem Solving • The problem of utilizing various F-Stops and Apertures (different settings each time) | R 1 2 3 4 R 1 2 3 4R 1 2 3 4 | overall mark for category:  /30 |

Communication **(The conveying of meaning through various forms; communication of intended message expression/organization of ideas)**

|  |  |  |
| --- | --- | --- |
| The completed rubric answers: • The rubric questions have been thoroughly answered and were properly submitted with your completed assignment and demonstrate attention to details and thoughtful, insightful answers.• A variety of subjects were captured that worked well for the intended shot (4) | R 1 2 3 4 R 1 2 3 4 | overall mark for category:  /20 |

Application **(The use and knowledge to make connections within and between various contexts; final product, composition, creativity)**

|  |  |  |
| --- | --- | --- |
| Foundations: Responsible Practices.• throughout the creation of this piece you demonstrated responsible studio practice by: Maintaining a clean, respectful workspace; Consistent, proper, safe materials usage; Not wasting/losing materials/tools/equipment; Responsible, ethical digital citizenship.Application: • Final Freeze frame captures motion crisply• Final Motion blur clearly depicts the movement of motion• Final Narrow Depth of Field effectively focuses on one are of your image• Final Wide Depth of Field effectively focuses on the entire frame of your image | R 1 2 3 4R 1 2 3 4R 1 2 3 4 R 1 2 3 4R 1 2 3 4 | overall mark for category:   /50 |

**Rubric Questions:**

**\*To be typed or written on a separate sheet. Each question should be a full paragraph
 (minimum 5 sentences each)**

1. What have you learned about Shutter Speed and Aperture?
2. What did you find the most challenging about this project
3. What area do you still need to work on improving?

PART ONE:

|  |  |  |  |
| --- | --- | --- | --- |
|  | ISO | Aperture | Shutter Speed |
| 1 |  |  |  |
| 2 |  |  |  |
|  | Subject and photo description s |
|  |  |  |

Freeze Frame photo #1

Thumbnails

|  |  |
| --- | --- |
|  |  |

Freeze Frame photo #2

|  |  |  |  |
| --- | --- | --- | --- |
|  | ISO | Aperture | Shutter Speed |
| 1 |  |  |  |
| 2 |  |  |  |
|  | Subject and photo description  |
|  |  |  |

Thumbnails

|  |  |
| --- | --- |
|  |  |

PART TWO:

|  |  |  |  |
| --- | --- | --- | --- |
|  | ISO | Aperture | Shutter Speed |
| 1 |  |  |  |
| 2 |  |  |  |
|  | Subject and photo description  |
|  |  |  |

Narrow Depth of Field

Thumbnails

|  |  |
| --- | --- |
|  |  |

Wide Depth of Field

|  |  |  |  |
| --- | --- | --- | --- |
|  | ISO | Aperture | Shutter Speed |
| 1 |  |  |  |
| 2 |  |  |  |
|  | Subject and photo description  |
|  |  |  |

Thumbnails

|  |  |
| --- | --- |
|  |  |