Name:

Date:

School:

Facilitator:

3.01 Toolmark Lab (50 Points)

# Activity #1: Impressions

## Part 1: Data and Observations

**Observe each tool in the Toolmark Impressions activity. Record the measurement of the head of the tool. Determine which clay and wood impressions match each tool. Justify your answer.** (0.5 points per cell, 16 points possible)

| **Tool** | **Measurement of tool head** | **Description of head of tool. Include shape and any distinguishing features** | **Clay impression match. Include a written justification using 1-2 pieces of evidence.** | **Wood impression match. Include a written justification using 1-2 pieces of evidence.** |
| --- | --- | --- | --- | --- |
| hammer 1 |  |  |  |  |
| hammer 2 |  |  |  |  |
| hammer 3 |  |  |  |  |
| ball peen 1 |  |  |  |  |
| ball peen 2 |  |  |  |  |
| Estwing |  |  |  |  |
| wrench 1 |  |  |  |  |
| wrench 2 |  |  |  |  |

## Part 2: Analysis

**Answer the questions below using complete sentences.** (2 points each for #1-3)

1. Which tools were the easiest to identify? Why?
2. Which tools were hardest to identify? Why?
3. Which characteristics were most helpful in identifying the tool that made each toolmark?
4. Was it easier to identify toolmarks in the clay or wood? Explain why. (3 points)

|  |
| --- |
| *Write your response below:* |
|  |

# Activity #2: Striations

## Part 1: Data and Observations

**Complete the table below. If possible, screenshot your matches to show the toolmark striations.** (1 point per cell, 16 points possible)

|  |  |  |
| --- | --- | --- |
| **Toolmark** | **Toolmark Match** | **Screenshot** |
| 0 |  |  |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |
| 7 |  |  |

## Part 2: Analysis and Reflection

1. If you were examining this evidence directly, what equipment would you use? Justify your choice. (3 points)

|  |
| --- |
| *Write your response below:* |
|  |

1. Explain how you would match these striations to a tool. (3 points)

|  |
| --- |
| *Write your response below:* |
|  |

1. How does striation evidence differ from impression evidence? (3 points)

|  |
| --- |
| *Write your response below:* |
|  |