

# CURRICULUM MAPPING GUIDE

## SUBJECT AREA:

### Engineering Design Through Metallic Materials



Unit: Safety

Concepts: (9 or Less)

- |                                  |    |
|----------------------------------|----|
| 1. General Safety                | 6. |
| 2. OSHA                          | 7. |
| 3. LOTO                          | 8. |
| 4. Machine Safety                | 9. |
| 5. Personal Protective Equipment |    |

Standards/Anchors: **3.7.10:A, 3.7.12:A**

Unit: Metal Skill Building

Concepts: (9 or Less)

- |              |    |
|--------------|----|
| 1. Machining | 6. |
| 2. Casting   | 7. |
| 3. Welding   | 8. |
| 4. Forming   | 9. |
| 5. Joining   |    |

Standards/Anchors: 3.6.12:C

Unit: Metal Manufacturing Systems

Concepts: (9 or Less)

- |                 |    |
|-----------------|----|
| 1. Craft        | 6. |
| 2. Mass         | 7. |
| 3. Intermittent | 8. |
| 4. Job/Lot      | 9. |
| 5.              |    |

Standards/Anchors: 3.6.12:C

Unit: Technological Design: Metal

Concepts: (9 or Less)

- |                        |                       |
|------------------------|-----------------------|
| 1. Define the Problem  | 6. Developmental Work |
| 2. Research/Brainstorm | 7. Prototype          |
| 3. Possible Solutions  | 8. Testing            |
| 4. Chosen Solution     | 9. Evaluation         |
| 5. Mock-Up             |                       |

Standards/Anchors: 3.6.12:C, 3.8.12:B

Unit:

Concepts: (9 or Less)

- |    |    |
|----|----|
| 1. | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. |    |

Standards/Anchors:

Unit:

Concepts: (9 or Less)

- |    |    |
|----|----|
| 1. | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. |    |

Standards/Anchors: