**Lesson Information**

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| Lesson: (2 of 3) Specialized Materials and Techniques Length: 90 minutes  Unit: (3 of 3) Specialized Techniques  Course: Masonry |

**Content Assumptions**

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| Prior to this class, students have taken safety courses. |

**Essential Questions**

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| 1. How do masonry construction techniques differ based on weather conditions? 2. How are specialized masonry materials treated differently? |

**Objectives Assessments**

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| After completing this lesson, students will be able to:   1. Explain the differences among hot-weather, cold-weather, and all-weather masonry techniques for construction and protection. 2. Demonstrate their knowledge of specialized masonry materials and how to use them. | 1. Venn diagram — Instructor observation 2. Product brochure — rubric |

**Activities/Instruction**

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| **Weather, or Not?** (30 minutes)  Using examples as described in the Materials section, Instructor explains how masonry construction is accomplished (and how masons are protected) in a variety of circumstances. As a follow-up, Instructor facilitates a review of the information presented by asking students to list hot-weather, cold-weather, and all-weather construction and protection techniques in a Venn diagram. This may be done collectively, as on a chalkboard or markerboard.  **Pick a Product** (30 minutes)  Using classroom, library, and/or Internet resources (such as those listed in the Materials section), students are to choose a specialized masonry product (e.g., glass block, refractory brick, etc.) and research how to handle and construct with it.  **Picture Perfect** (30 minutes)  Using the information they gleaned from their research, students are to design product brochures for the materials they chose, outlining the features of the material, how it is handled/stored, and how it is installed. |

**Materials**

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| For students:   * Internet resources: * http://pittsburghcorning.com/Default.aspx (Manufacturer’s Web site for glass blocks) * http://www.refractorybrick.com/ (Manufacturer’s Web site for refractory bricks) * http://www.stonefoundation.org/links.html (Resources page from the Stone Foundation’s Web site)   For Instructor:   * Examples of protective equipment used in different situations * [PRODUCT BROCHURE RUBRIC] |