

WWW Welding Activity Station

(Soft Spray Cheese & Crackers Simulation)

Learning Objectives: Understand basic welding joint types and practice precision and control in “bead” application.

Welding Simulation Concepts

- Spray cheese = welding bead
- Crackers = metal pieces
- Clean application = strong weld
- Discuss real welding terms like:
- MIG/TIG welding
- Weld penetration
- Heat-affected zone (HAZ)

Materials

- Soft spray cheese (e.g., Easy Cheese)
- Crackers (variety of shapes—round, square, etc.)
- Paper plates or trays for workspace
- Plastic knives or spatulas (optional for spreading or shaping)
- Safety goggles (for fun and realism)
- Station signage and role cards
- Timer or stopwatch

Station Setup

1. Set up tables with paper plates, crackers, and spray cheese.
2. Assign roles: Welder, Inspector, Safety Officer.
3. Provide role cards with responsibilities and welding terminology.
4. Optional: Use colored cheese or food dye to simulate different “weld types.”

Role Play

Welder

- Selects two crackers to “weld” together.
- Uses spray cheese to create a bead between the crackers.
- Practices different “welds”:
 - Butt joint: edge-to-edge
 - Lap joint: overlapping crackers
 - T-joint: perpendicular placement
- Aims for clean, consistent cheese application.

Inspector

- Reviews the “weld” for:
 - Consistency
 - Coverage
 - Structural integrity (crackers should stick together)
- Provides feedback: “Too much cheese,” “Uneven bead,” “Excellent fusion!”

Safety Officer

- Ensures goggles are worn.
- Times the welding process.
- Encourages safe handling and cleanliness.

Debrief Questions

- Which weld type was easiest to simulate?
- What made a “strong” weld in this activity?
- How does this relate to real welding challenges?
- What would you do differently next time?