



# Creative Applications

## Grading Period 1

### Power Objectives:

- Develop employability skills, leadership, and communication. (P.O. #1)
- Interpret drawings and documentation and perform measurements. (P.O. #4)
- Apply principles of protection and prevention to create and maintain safe working conditions. Practice personal safety. (P.O. #5)

### Academic Vocabulary:

- safety
- scale factor
- miter saw
- band saw
- planner
- hand tool
- drill press
- scroll saw
- communication
- sander
- sandpaper
- metric system
- English Standard Measurement system
- measurement conversion
- factor
- clamp
- teamwork
- collaboration

## Safety and Measurement

### Enduring Understandings:

- Shop safety is a developed attitude gained through an understanding of general safety principles.
- Shop safety needs to be practiced by all individuals in the classroom.
- Safety essentials learned in the workplace carry to other areas outside of the shop.
- Careful study of both general and specific safety practices will result in a safe working environment.
- Scale factor is the constant ratio of each actual length to its corresponding length in a drawing.

### Essential Questions:

- How can scale drawing be applied to real-life situations?
- How are perimeter, circumference, and surface area affected by proportional changes in a figure's dimensions?
- What are the non-negotiable safety practices in the shop area?
- How does an individual learn to work safely with both hand and power tools?
- Who is responsible for following safe work practices in and around the shop and work site?