



Moscow School District #281

Mastery Learning Map

Foundations of Technology – Engineering Technology Program

1. Competency Statements for General Lab Safety Rules and Procedures

“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.

Students will describe, identify, and model general lab safety rules and procedures.

Students will:

1. Describe general shop safety rules and procedures.
2. Comply with the required use of safety glasses, ear protection, gloves, and shoes during lab/shop activities (i.e., personal protection equipment – PPE).
3. Operate lab equipment according to safety guidelines.
4. Identify and use proper lifting procedures and proper use of support equipment.
5. Utilize proper ventilation procedures for working within the lab/shop area.
6. Identify marked safety areas and safety signage.
7. Identify the location and use of eye wash stations.
8. Identify the location of the posted evacuation routes.
9. Identify and wear appropriate clothing for lab/shop activities.
10. Secure hair and jewelry for lab/shop activities.
11. Perform housekeeping duties.
12. Follow verbal instructions to complete work assignments.
13. Follow written instructions to complete work assignments.

National Standards

1.1.1; 1.1.3; 1.1.4; 1.1.5; 1.1.6; 1.1.7; 1.1.9; 1.1.10; 1.1.11; 1.1.12; 1.1.15; 1.1.16; 1.1.17

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2. Competency Statements for Hand Tools

“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.

Students will identify and model hand tool rules and procedures.

Students will:

1. Demonstrate the proper techniques when using hand tools.
2. Demonstrate safe handling and use of appropriate tools.
3. Identify proper cleaning, storage and maintenance of tools.

National Standards

1.2.3; 1.2.4; 1.2.5

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<p>3. Competency Statements for Power tools and Equipment</p> <p><i>“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.</i></p>	<p><i>Students will identify and model power tools and equipment rules and procedures.</i></p>
	<p>Students will:</p> <ol style="list-style-type: none">1. Demonstrate the proper techniques when using power tools and equipment.2. Demonstrate safe handling and use of appropriate power tools and equipment.3. Identify proper cleaning, storage and maintenance of power tools and equipment.
National Standards	1.3.3; 1.3.4; 1.3.5

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<p>4. Competency Statements for Insert Strand</p> <p>(i.e. Counting and Cardinality, Reading Literature)</p> <p><i>“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.</i></p>	<p><i>Explain the purpose of OSHA and role in workplace safety.</i></p> <p>Students will:</p> <ol style="list-style-type: none">1. Describe OSHA’s mission.2. List employer’s responsibilities in the workplace.3. Describe inspection procedures.4. List employee rights under OSHA.
National Standards	1.1.2

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5. Competency Statements for Insert Strand

(i.e. Counting and Cardinality, Reading Literature)

“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.

Students identify the location and types of fire extinguishers and other fire safety equipment. Describe the procedures for using a fire extinguisher and other fire equipment.

Students will:

1. Identify the locations of fire extinguishers in the laboratory.
2. Identify the type of extinguisher utilized given specific circumstances and fuel types.
3. Describe the procedure for extinguishing a fire using a fire extinguisher and other fire equipment.

National Standards

1.1.8

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6. Competency Statements for Insert Strand

(i.e. Counting and Cardinality, Reading Literature)

“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.

Identify and describe the safety aspects of low and high voltage circuits.

Students will:

1. Identify circuits by plug and breaker type.
2. Describe safety aspects for all circuits.

National Standards

1.1.13

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7. Competency Statements for Insert Strand (i.e. Counting and Cardinality, Reading Literature) <i>“Learning Targets” are models of what educators may see in performance tasks when students demonstrate their increasing understanding and use of the competencies.</i>	<i>Locate and interpret safety data sheets.</i>
	Students will: <ol style="list-style-type: none">1. Find safety data sheets given a product.2. Describe the specific sections of a SDS.3. Determine PPE for given a product.4. List cleanup procedures, safety concerns, and disposal for a given product.
National Standards	1.1.14