

Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Collision Repair Process Overview (IRP00)

Instructional Unit: A. Collision repair process overview

### Standard Alignments (Section 2)

GLE/CLE: N/A  
Knowledge: (CA) 3,5  
CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9  
NETS: 1c; 4c; 6a  
Performance: 1.4, 1.5, 4.5

### Unit (Section 3)

Learning Targets:

- **Identify the different types of collision damage**
- Explain the creation and function of a damage report
- Define repair blueprinting and supplements
- Explain insurance policy basics
- Describe vehicle teardown and parts ordering
- Explain exterior lighting and heating and cooling systems

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
- Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met
- The instructor can monitor student progress through the I-Car website
- The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:

- Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)

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Instructional Resources/Tools:
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| <ul style="list-style-type: none"><li>• Technology equipment</li><li>• Internet accessibility</li><li>• I-CAR curriculum</li></ul> |
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Cross Curricular Connections:
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| <ul style="list-style-type: none"><li>• ELA:<ul style="list-style-type: none"><li>• Technical reading</li><li>• Listening skills</li></ul></li></ul> |
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### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Personal Safety IPS00

Instructional Unit: B. Personal safety

### Standard Alignments (Section 2)

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### Unit (Section 3)

Learning Targets:

- **Identify eye, body, respiratory, and hearing protection requirements**
- Identify work safety regulations and hazardous material identification systems

Instructional Strategies:

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- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
- Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met
- The instructor can monitor student progress through the I-Car website
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Sample Assessment Questions:

- Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)

Instructional Resources/Tools:

- Technology equipment
- Internet accessibility
- I-CAR curriculum

Cross Curricular Connections:

- ELA:
  - Technical reading
  - Listening skills

### **Depth of Knowledge (Section 5)**

DOK: 1

Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Vehicle Construction Materials (ICM00)

Instructional Unit: C. Intro to Construction Materials

### Standard Alignments (Section 2)

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### Unit (Section 3)

Learning Targets:

- Explaining steel strengths and characteristics
- **Identifying various types of steel used in vehicle construction**
- Explaining some of the forming processes used for steel used in vehicle construction
- Identifying considerations when working with steel parts

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
- Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met
- The instructor can monitor student progress through the I-Car website  
The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:

- Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)

Instructional Resources/Tools:

- Technology equipment
- Internet accessibility
- I-CAR curriculum

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Cross Curricular Connections:

- ELA:
  - Technical reading
  - Listening skills

### **Depth of Knowledge (Section 5)**

DOK: 1

Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Vehicle Parts Terminology – Part 1 (IVT01)

Instructional Unit: D. Vehicle parts terminology – Part 1

### **Standard Alignments (Section 2)**

GLE/CLE: N/A Knowledge: (CA) 3,5 CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9 NETS: 1c; 4c; 6a Performance: 1.4, 1.5, 4.5
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### **Unit (Section 3)**

Learning Targets:
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| <ul style="list-style-type: none"><li>• Identify parts of bumper assemblies</li><li>• Identify parts of the hood</li><li>• Identify parts of the fender</li><li>• Identify parts of the outer roof panel</li></ul> |
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Instructional Strategies:
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| <ul style="list-style-type: none"><li>• This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course</li><li>• Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems</li></ul> |
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Assessments/Evaluations:
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| <ul style="list-style-type: none"><li>• Each unit requires the student to complete online review questions, quizzes, and then a test</li><li>• Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met</li><li>• The instructor can monitor student progress through the I-Car website<br/>The students can contact the instructor, and vice versa, if direction or help is needed</li></ul> |
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Sample Assessment Questions:
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| <ul style="list-style-type: none"><li>• Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)</li></ul> |
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Instructional Resources/Tools:
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- |  |
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| <ul style="list-style-type: none"><li>• Technology equipment</li><li>• Internet accessibility</li><li>• I-CAR curriculum</li></ul> |
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Cross Curricular Connections:

- ELA:
  - Technical reading
  - Listening skills

**Depth of Knowledge (Section 5)**

DOK: 1



Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Vehicle Parts Terminology – Part 2

Instructional Unit: E. Vehicle parts terminology – Part 2

### Standard Alignments (Section 2)

GLE/CLE: N/A  
Knowledge: (CA) 3,5  
CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9  
NETS: 1c; 4c; 6a  
Performance: 1.4, 1.5, 4.5

### Unit (Section 3)

Learning Targets:

- **Identify various vehicle designs**
- Identify front parts of a unibody structure
- Identify parts of a full-frame assembly

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
- Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met
- The instructor can monitor student progress through the I-Car website  
The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:

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Instructional Resources/Tools:

- Technology equipment
- Internet accessibility
- I-CAR curriculum

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Cross Curricular Connections:

- ELA:
  - Technical reading
  - Listening skills

### **Depth of Knowledge (Section 5)**

DOK: 1

Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Safety System (ISS00)

Instructional Unit: F. Safety system

### Standard Alignments (Section 2)

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### Unit (Section 3)

Learning Targets:

- **Explain how an airbag functions**
- Identify the parts of the front airbag system
- Explain the operation of the front airbag system
- Identify the parts of the side airbag system
- Explain the operation of the side airbag system

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
- Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met
- The instructor can monitor student progress through the I-Car website  
The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:

- Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)

<p>Instructional Resources/Tools:</p> <ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
<p>Cross Curricular Connections:</p> <ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Tools, Equipment, and Attachment Methods – Part 1 (ITM01)

Instructional Unit: G. Tools, equipment, and attachment methods – Part 1

### Standard Alignments (Section 2)

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### Unit (Section 3)

Learning Targets:

- **Identify the uses for a hammer and dolly**
- Explain the purpose of paintless dent repair tools
- Explain the different types of dent-pulling equipment and the purpose of files
- Explain the differences between a grinding wheel and a cutoff wheel
- Describe the two common saws used in a collision repair facility

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
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Sample Assessment Questions:

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Instructional Resources/Tools:

- Technology equipment
- Internet accessibility
- I-CAR curriculum

Cross Curricular Connections:

- ELA:
  - Technical reading
  - Listening skills

### **Depth of Knowledge (Section 5)**

DOK: 1

Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit Intro To tools equipment and Attachment Methods – Part 2 (ITM02)

Instructional Unit: H. Tools, equipment and attachment methods – Part 2

### **Standard Alignments (Section 2)**

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### **Unit (Section 3)**

Learning Targets:

- Describe different types of three-dimensional measuring equipment
- Describe different types of frame straightening equipment
- Describe different types of pulling hardware

Instructional Strategies:

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- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
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Sample Assessment Questions:

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Instructional Resources/Tools:

- Technology equipment
- Internet accessibility
- I-CAR curriculum

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Cross Curricular Connections:

- ELA:
  - Technical reading
  - Listening skills

### **Depth of Knowledge (Section 5)**

DOK: 1



Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Industry Repair Terms (IRT00)

Instructional Unit: I. Industry repair terms

### **Standard Alignments (Section 2)**

GLE/CLE: N/A

Knowledge: (CA) 3, 5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### **Unit (Section 3)**

Learning Targets:

- **Identify the two sides of a vehicle**
- Identify sheet metal straightening terms
- Identify panel alignment terms
- Identify plastic repair terms

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

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Sample Assessment Questions:

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<p>Instructional Resources/Tools:</p> <ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
<p>Cross Curricular Connections:</p> <ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Mechanical Systems Terminology – Part 1

Instructional Unit: J. Mechanical systems terminology – Part 1

### **Standard Alignments (Section 2)**

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### **Unit (Section 3)**

Learning Targets:

- Identifying parts of a steering column
- Identifying parts of a parallelogram steering system
- Explaining how a parallelogram steering system operates
- Identifying parts of a rack and pinion steering system
- Explaining how a rack and pinion steering system operates
- Identifying various types of power steering systems
- Identifying power steering system parts

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

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The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:
<ul style="list-style-type: none"> <li>• Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)</li> </ul>
Instructional Resources/Tools:
<ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
Cross Curricular Connections:
<ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro To Mechanical Systems Terminology – Part 2

Instructional Unit: K. Mechanical systems terminology – Part 2

### **Standard Alignments (Section 2)**

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### **Unit (Section 3)**

Learning Targets:

- Identify parts of a MacPherson strut suspension
- Identify parts of a short-arm and long-arm (SLA) suspension
- Identify parts of a double wishbone suspension
- Identify types and parts of solid axle suspensions
- Identify parts of advanced suspension systems

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

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The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:

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<p>Instructional Resources/Tools:</p> <ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
<p>Cross Curricular Connections:</p> <ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro To Mechanical Repair Terms and Vehicle Protection (IMV00)

Instructional Unit: L. Mechanical repair terms and vehicle protection

### **Standard Alignments (Section 2)**

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.1; 11-12.RST.2; 11-12.RST.3; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### **Unit (Section 3)**

Learning Targets:

- Identify parts of a circuit
- Identify circuit protection
- Identify voltage, current, and resistance
- Identify electrical diagnostic terms
- Identify electrical diagrams
- Identify a scan tool

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
- Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met
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The students can contact the instructor, and vice versa, if direction or help is needed

Sample Assessment Questions:

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<p>Instructional Resources/Tools:</p> <ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
<p>Cross Curricular Connections:</p> <ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Refinishing and Corrosion Protection – Part1 (IRC01)

Instructional Unit: M. Refinishing and corrosion protection – Part 1

### **Standard Alignments (Section 2)**

GLE/CLE: N/A Knowledge: (CA) 3,5 CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9 NETS: 1c; 4c; 6a Performance: 1.4, 1.5, 4.5
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### **Unit (Section 3)**

Learning Targets:
<ul style="list-style-type: none"><li>• Identify zinc coating</li><li>• Identify metal treatment</li><li>• Identify coatings applied by the vehicle maker</li><li>• Identify vehicle maker corrosion protection warranties</li></ul>
Instructional Strategies:
<ul style="list-style-type: none"><li>• This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course</li><li>• Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems</li></ul>
Assessments/Evaluations:
<ul style="list-style-type: none"><li>• Each unit requires the student to complete online review questions, quizzes, and then a test</li><li>• Students must pass the unit test with at least a 70%; Otherwise, they have to review the material and be retested until 70% mastery is met</li><li>• The instructor can monitor student progress through the I-Car website The students can contact the instructor, and vice versa, if direction or help is needed</li></ul>
Sample Assessment Questions:
<ul style="list-style-type: none"><li>• Questions are protected by I-CAR and only available if you have signed up for the course (This is done to protect the integrity of the course)</li></ul>

<p>Instructional Resources/Tools:</p> <ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
<p>Cross Curricular Connections:</p> <ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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Curriculum: Auto Collision I & II (Summer Intro. Course)

Curricular Unit: Intro to Refinishing and Corrosion Protection Part 2 IRC02

Instructional Unit: N. Refinishing and corrosion protection – Part 2

### **Standard Alignments (Section 2)**

GLE/CLE: N/A

Knowledge: (CA) 3,5

CCSS: 11-12.SL.2; 11-12.RST.2; 11-12.RST.4; 11-12.RST.9

NETS: 1c; 4c; 6a

Performance: 1.4, 1.5, 4.5

### **Unit (Section 3)**

Learning Targets:

- Identify some types of equipment found in a mixing room
- Explain how mixing cups and sticks function
- Explain the parts of a spraybooth
- Explain how color matching tools are used
- Describe the function of detailing tools

Instructional Strategies:

- This is an online, self-paced introductory to auto collision class (1 of 14 topics). Students that have been accepted to the Auto Collision program are required to complete this introductory program before the first day of class to better prepare themselves for the auto collision course
- Students watch a series of instructional videos, which introduces them to necessary automotive vocabulary, parts, and systems

Assessments/Evaluations:

- Each unit requires the student to complete online review questions, quizzes, and then a test
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Sample Assessment Questions:

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Board Approved 8-3-15

<p>Instructional Resources/Tools:</p> <ul style="list-style-type: none"> <li>• Technology equipment</li> <li>• Internet accessibility</li> <li>• I-CAR curriculum</li> </ul>
<p>Cross Curricular Connections:</p> <ul style="list-style-type: none"> <li>• ELA: <ul style="list-style-type: none"> <li>• Technical reading</li> <li>• Listening skills</li> </ul> </li> </ul>

### **Depth of Knowledge (Section 5)**

DOK: 1
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