

**Career and Technical Education**  
**Middle School (Grades 6-8)**  
**Career Exploration (Session 1) and Design Challenge**  
**Days 11-13: Days 2-4 Lesson 2 Review: Agriculture, Architecture, Arts & A/V, and**  
**Business**

<b>Standards</b>	<ul style="list-style-type: none"> <li>• Formulate career ideas.</li> <li>• Learn more about careers in the Agriculture, Architecture, Arts &amp; A/V and Business.</li> <li>• Make predictions about future career aspirations.</li> <li>• Students will demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation.</li> <li>• Students will demonstrate an understanding of workplace structures, organizations, systems, and climates.</li> <li>• Students will demonstrate job acquisition and advancement skills.</li> </ul>
<b>Learning Targets/I Can Statements</b>	➤ I can analyze my interests, abilities and skills to determine the career choices for myself.
<b>Essential Question(s)</b>	1. What are some future career fields that interest you from today's lesson?
<b>Resources</b>	Session 1 – Agriculture, Architecture, Arts & A/V <ul style="list-style-type: none"> <li>• <b>Handouts</b>              Career exploration (worksheet)--See <i>Student Lesson Files</i> folder              Paper, pen and pencil</li> </ul> You will need to use the template provided for all assigned activities in this lesson.
<b>Learning Activities or Experiences</b>	<p><b>Opening Activity</b> (10 minutes):  <b>Lesson review:</b> Career awareness is the first process for you to begin exploring career possibilities. In this activity that you will review and complete design challenge, it will help you develop Self-knowledge, Educational and Occupational Exploration, and Career Planning awareness while exploring sixteen career clusters. Career Clusters are groupings of jobs that share common characteristics.</p> <p>By looking at clusters of jobs, you may find a variety of careers with similar characteristics in which you may be interested. The Career Clusters shown in this activity book were developed by the US Department of Education.</p> <p><b>Application</b> (30 minutes) <b>Career Awareness (Agriculture, Architecture, Arts &amp; A/V, and Business)</b></p> <p>Students will need to complete career awareness worksheets for the following career clusters: Agriculture and Natural Resources; Architecture and Construction; Arts, A/V Technology &amp; Communications; And design challenge for appropriate grade level (2 days to build)</p>

**Closing****Quiz (10 minutes): Reflection (5pts)**

Write one paragraph (five to seven sentences) to summarize the career cluster that most interested you after completing the worksheet activities.

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**Days 11-13: Review Days 2-4 Lesson 2: Agriculture, Architecture, Arts & A/V**



**Sample Careers**

1. Pest Controller
2. Farm Equipment Mechanic \_\_\_\_\_
3. Veterinarian \_\_\_\_\_
4. Grounds Keeper \_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_

Can you think of another?

Careers in the Agriculture, Food & Natural Resources cluster help us to wisely utilize what Mother Nature gave us. People in these kinds of occupations can work with plants, trees and animals. They work on farms, in veterinary offices, forests or even out at sea. They mow lawns, catch fish, grow food and raise animals. You can be an engineer, pest control worker, farmer, tree pruner or forest worker and be in this career cluster.

Maintaining a home is a career almost all adults have. Think about what kind of home and family life you want in the future as an adult.

Where will you live? The city? The country? The suburbs? What state?

Will you have any pets? What kind? Will you have children? What type of foods do you eat with your family and friends?

Write a short story about how you see yourself in the future, perhaps 15 years from now. Talk about the things that will have changed. What will your life be like?



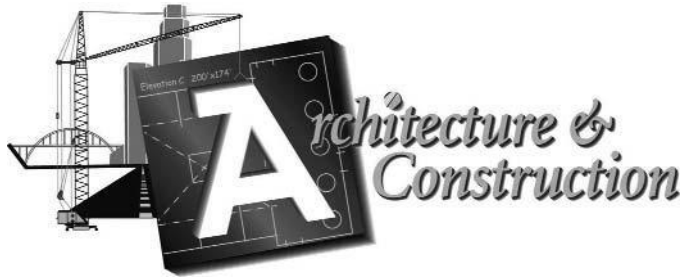
## Sample Careers

1. Radio Announcer
2. Photographer \_\_\_\_\_
3. Jeweler \_\_\_\_\_
4. Writer \_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_

Can you think of another?

Careers in the Arts, Audio/Visual Technology & Communications cluster usually utilize a person's creativity. People in these occupations can work with cameras, musical instruments or small tools. They may work in TV studios, jewelry stores and theaters or be self-employed. You can be an illustrator, writer, musician, radio announcer, reporter or film editor and be in this career cluster.

Draw a picture or illustration of career in the Arts, A/V Technology, & Communications pathway.



## Sample Careers

1. Roofer
2. Electrician \_\_\_\_\_
3. Plumber \_\_\_\_\_
4. Architect \_\_\_\_\_
5. \_\_\_\_\_

*Can you think of another?* \_\_\_\_\_

Careers in the Architecture & Construction cluster design and build things. People in these occupations can work with many different tools to help them do their special jobs. They may build or design houses and buildings out of wood, steel or stone. They build highways and bridges too. You can be an engineer, electrician, carpenter or drafter and be in this career cluster.

Write a conversation between two friends about careers in architecture and construction. Each person in the conversation must have a minimum of four parts.

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## Doghouses

### *Architecture & Construction and Business*

What you learn today will help you tomorrow!

Reading and math are important skills to have. Architects and construction workers need to be able to plan, read and follow directions. They also need to know how to make estimates on how much material they will need and how much it will cost.

<b>Materials Needed</b>	<b>Unit Price</b>	<b>Total Cost</b>
2 sheets plywood	\$9.95 each	
1 box roofing shingles	\$12.45	
1 box roofing nails	\$1.89	
1 box small nails	\$1.49	
2 8 foot boards	\$.89 each	
	TOTAL	

1. What is the total cost of materials to build the doghouse?
  
2. Rounding to the nearest 50 cents, what is the estimated cost of materials to build the doghouse?
  
3. What school subjects would help you build a doghouse? Why?

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**👉 Design Challenge 🏠**

**6<sup>th</sup>**-Create a model of the doghouse and document the design process using the 6 step design process.

**7<sup>th</sup>**- List all of the simple machines that could be used to make work easier when moving the materials and building the dog house.

**8<sup>th</sup>**- The owner wants to install a light in the doghouse: what type of circuit would be needed? Draw a diagram of that circuit

**Career and Technical Education  
Middle School (Grades 6-8)  
Career Exploration (Session 2)**

**Day 14: review Day 5 Lesson 3: Education and Health Science**

<b>Standards</b>	<ul style="list-style-type: none"> <li>• Formulate career ideas.</li> <li>• Learn more about careers in the Education, Finance, Health Science and Hospitality &amp; Tourism</li> <li>• Make predictions about future career aspirations.</li> <li>• Students will demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation.</li> <li>• Students will demonstrate an understanding of workplace structures, organizations, systems, and climates.</li> <li>• Students will demonstrate job acquisition and advancement skills.</li> </ul>
<b>Learning Targets/I Can Statements</b>	<ul style="list-style-type: none"> <li>➤ I can analyze my interests, abilities and skills to determine the career choices for myself.</li> </ul>
<b>Essential Question(s)</b>	<p>2. What are some future career fields that interest you from today's lesson?</p>
<b>Resources</b>	<ul style="list-style-type: none"> <li>• Session 2 – Education, Health Science</li> <li>• <b>Handouts</b> Career exploration (worksheet)--See <i>Student Lesson Files</i> folder</li> </ul> <p>Paper, pen and pencil</p> <p>You will need to use the template provided for all assigned activities in this lesson.</p>
<b>Learning Activities or Experiences</b>	<p><b>Opening Activity</b> (10 minutes): <b>Lesson review:</b> Career awareness is the first process for you to begin exploring career possibilities. The activities you will complete will help you develop Educational, Occupational Exploration, and Career Planning awareness while exploring sixteen career clusters. Career Clusters are groupings of jobs that share common characteristics.</p> <p>By looking at clusters of jobs, you may find a variety of careers with similar characteristics in which you may be interested. The Career Clusters shown in this activity book were developed by the US Department of Education.</p> <p><b>Application</b> (30 minutes) <b>Career Awareness (<i>Education, Finance, Health Science and Hospitality &amp; Tourism</i>)</b></p> <p>Students will need to complete/review career awareness worksheets for the following career clusters: Education &amp; Training, Health Science,</p>
<b>Closing</b>	<p><b>Quiz</b> (10 minutes): <b>Reflection</b></p> <p>Write one paragraph (five to seven sentences) to summarize the career cluster that most interested you after completing the worksheet activities.</p>



Career and Technical Education  
Middle School (Grades 6-8)  
Career Exploration (Session 2)

Day 14: Review Day 5 Lesson 3: Education and Health Science

Sample Careers



1. School Teacher
2. School Principal \_\_\_\_\_
3. Coach \_\_\_\_\_
4. Librarian \_\_\_\_\_

4

**MATCHING**

5. \_\_\_\_\_

Can you think of another? \_\_\_\_\_

Careers in the Education & Training cluster help people learn new knowledge and get new skills. People in these occupations may work in libraries, schools or recreation centers. They may help plan or manage activities in a learning environment. You can be a teacher, counselor, librarian or a coach and be in this career cluster.

Draw a line connecting the name of a career with a tool that person might use.

**CAREER**

Accountant

Nurse

Firefighter

Chef

Electrician

Astronomer

**TOOL**

Measuring Cup

Axe

Calculator

Telescope

Insulated Gloves

Stethoscope

**Career and Technical Education  
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Career Exploration (Session 2)**

**Day 14: Review Day 5 Lesson 3: Education and Health Science**

What tools might be used in these careers? Draw a picture and label tools used in the listed careers.

<b>REPORTER</b>	<b>CARPENTER</b>
<b>ELEMENTARY SCHOOL TEACHER</b>	<b>DOCTOR</b>



## Sample Careers

1. Nurse
2. Pharmacist \_\_\_\_\_
3. Surgeon \_\_\_\_\_
4. Dentist \_\_\_\_\_
5. \_\_\_\_\_

*Can you think of another?* \_\_\_\_\_

## CHOOSE AN OCCUPATION

Careers in the Health Science cluster help people stay healthy or take care of people who are sick. People in these occupations might specialize on different parts of your body like your teeth, feet, eyes, back or even your brain. They may work in hospitals, laboratories, pharmacies, dentist offices or schools. You can be a psychiatrist, optician, pharmacist, nurse or chiropractor and be in this career cluster.

1. Choose an occupation and write it down here:
2. What kind of skills do you think a person would need for this occupation?
3. What kind of tools do you think this person would use in this career?
4. What do you think a typical day on the job might be like for this person?
5. How is their day on the job similar to your day at school?
6. What kind of education do you think a person would need for this occupation?

**Career and Technical Education  
Middle School (Grades 6-8)  
Career Exploration (Session 3)**

**Day 15-17: Days 6-8 Lesson 4: Human Services, Information Technology, Law & Public Safety, & Transportation**

<b>Standards</b>	<ul style="list-style-type: none"> <li>• Formulate career ideas.</li> <li>• Learn more about careers in the Human Services, Information Technology, Law &amp; Public Safety, &amp; Transportation</li> <li>• Make predictions about future career aspirations.</li> </ul>
<b>Learning Targets/ I Can Statements</b>	<ul style="list-style-type: none"> <li>➤ I can analyze my interests, abilities and skills to determine the career choices for myself.</li> </ul>
<b>Essential Question(s)</b>	3. What are some future career fields that interest you from today's lesson?
<b>Resources</b>	<ul style="list-style-type: none"> <li>• Session 3 – Human Services, Information Technology, Law &amp; Public Safety, &amp; Transportation</li> <li>• <b>Handouts</b> Career exploration (worksheets)--See <i>Student Lesson Files</i> folder Paper, pen and pencil</li> </ul> <p>You will need to use the template provided for all assigned activities in this lesson.</p>
<b>Learning Activities or Experiences</b>	<p><b>Opening Activity</b> (10 minutes):</p> <p><b>Lesson review:</b> Career awareness is the first process for you to begin exploring career possibilities. The activities you will complete will help you develop Educational, Occupational Exploration, and Career Planning awareness while exploring sixteen career clusters. Career Clusters are groupings of jobs that share common characteristics.</p> <p>By looking at clusters of jobs, you may find a variety of careers with similar characteristics in which you may be interested. The Career Clusters shown in this activity book were developed by the US Department of Education.</p> <ul style="list-style-type: none"> <li>• <b>Application</b> (30 minutes) <b>Career Awareness (Human Services, Information Technology, Law &amp; Public Safety, &amp; Transportation)</b></li> <li>• <b>Design challenge ( 2 days)</b></li> </ul> <p>Students will need to complete career awareness worksheets for the following career clusters: Career Exploration Session 3: Human Services, Information Technology, Law &amp; Public Safety, and Transportation and design challenge for appropriate grade level.</p>
<b>Closing</b>	<p><b>Quiz</b> (10 minutes): <b>Reflection</b></p> <p>Write one paragraph (five to seven sentences) to summarize the career cluster that most interested you after completing the worksheet activities.</p>



## Sample Careers

1. Help Desk Technician
2. ~~Webmaster~~ \_\_\_\_\_
3. ~~Cable TV Installer~~ \_\_\_\_\_
4. ~~Computer Programmer~~ \_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_

Can you think of another?

Careers in the Information Technology cluster are usually very technical. People in these occupations work with computers and lots of information. They may work in almost any business where computers are used. They may develop or design computer programs and hardware. You can be a web master, programmer or database administrator and be in this career cluster.



### Sample Careers

1. Lawyer
  2. Security Officer \_\_\_\_\_
  3. Firefighter \_\_\_\_\_
  4. Police Officer \_\_\_\_\_
  5. \_\_\_\_\_
- Can you think of another?* \_\_\_\_\_

Careers in the Law, Public Safety & Security cluster help protect the people living in the community. They may work in law offices, police stations, fire stations or jails. You can be a sheriff, judge, emergency medical technician (EMT) or warden and be in this career cluster

Instructions: Complete worksheet on the page. Then, create a crossword puzzle or word search of those ten tools

1. Every occupation uses a unique set of tools. List ten tools firefighters must use to extinguish the fire.

# MULTIPLE ROLES



## Sample Careers

1. Ship Captain
  2. ~~Automotive Mechanic~~ \_\_\_\_\_
  3. ~~School Bus Driver~~ \_\_\_\_\_
  4. ~~Airplane Pilot~~ \_\_\_\_\_
  5. \_\_\_\_\_
- Can you think of another?* \_\_\_\_\_

Careers in the Transportation, Distribution & Logistics cluster move people, material and goods safely. People in these occupations can work with cars, busses, trucks, trains, boats and airplanes. They may work in the air, on the ocean or on highways moving things from one place to another. You can be a taxi driver, engineer, air traffic controller or mechanic and be in this career cluster.

Instructions: complete worksheet on next page

Career and Technical Education

Middle School (Grades 6-8)

Career Exploration (Session 3)

Days 6-8 Lesson 4: Human Services, Information Technology, Law & Public Safety, & Transportation

# MULTIPLE ROLES

Instructions: Every person plays more than one role in life. Can you identify some of your roles?

I am the child of \_\_\_\_\_ .

I am the student of \_\_\_\_\_ .

I live in the community of \_\_\_\_\_ .

I am a member of \_\_\_\_\_ .

I am a player of \_\_\_\_\_ .

I am an owner of \_\_\_\_\_ .

I am a relative of \_\_\_\_\_ .

\_\_\_\_\_ is a teacher at my school.

\_\_\_\_\_ is a person in my neighborhood.

\_\_\_\_\_ is a member of my family.

\_\_\_\_\_ is a member of my team.



Career and Technical Education  
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Career Exploration (Session 3)

Days 6-8 Lesson 4: Human Services, Information Technology, Law & Public Safety, &  
Transportation

## SHIELD ACTIVITY

### "Coat of Arms"

Students are to draw pictures (no words) for each block.

#### Box 1

Something about themselves they would like others to know about them (blue eyes, always smiling, great athlete, etc.)

#### Box 2

Someone that they admire or look up to (i.e. type of person they are or their career)

#### Box 3

Students WRITE their last names

#### Box 4

Favorite school activity, sport or class

#### Box 5

Career/work that they wish to pursue after high school

**Career and Technical Education  
Middle School (Grades 6-8)  
Career Exploration (Session 3)**

**Days 15-17: Review Days 6-8 Lesson 4: Human Services, Information Technology, Law  
& Public Safety, & Transportation**

**Design Challenge:**

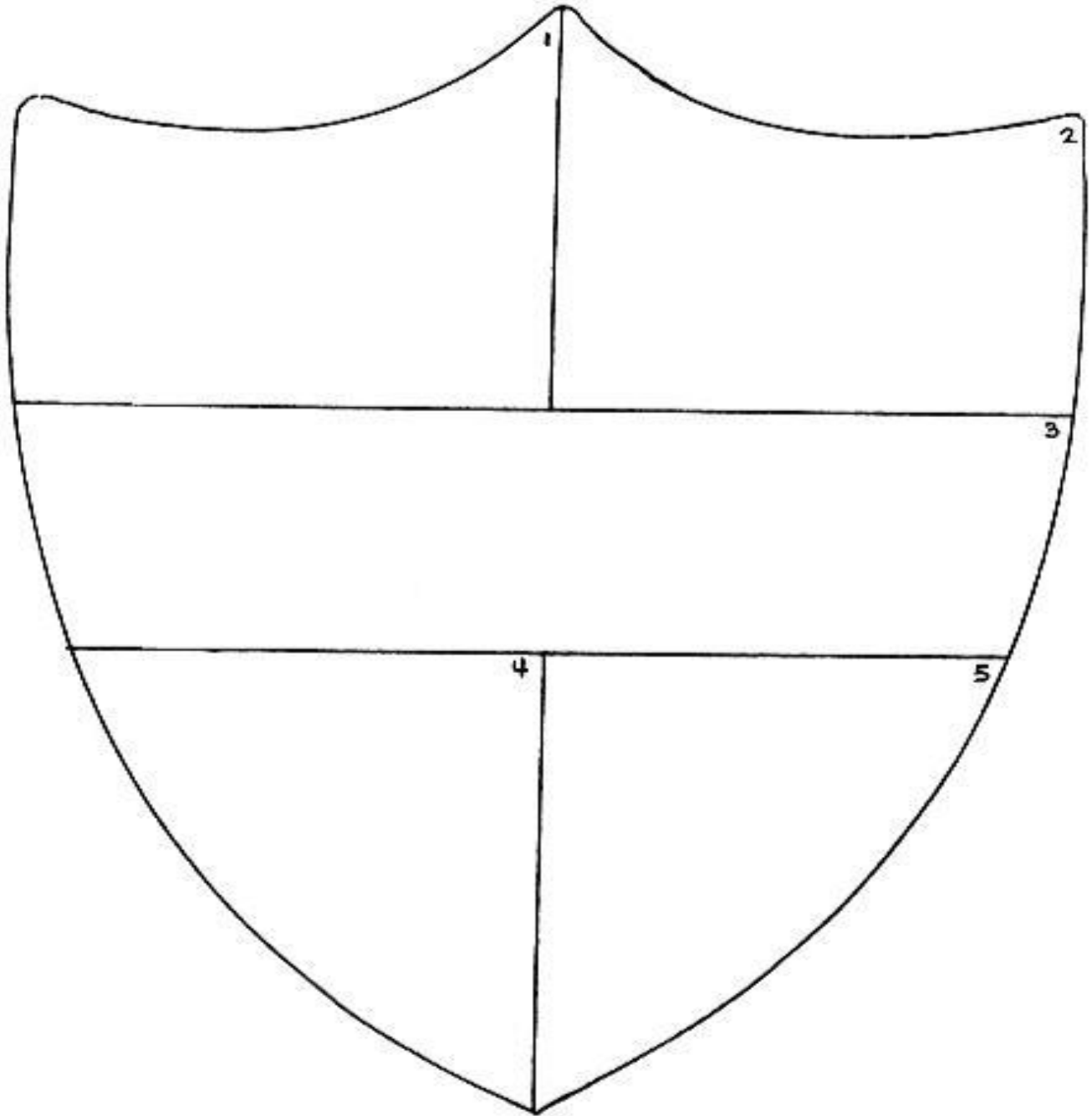
Directions: After the student design their "Coat of Arms"

6<sup>th</sup>-Students will build their shield and turn it in upon returning to school. Student will list the dimensions of their shield.  
( $A=L \times W$ )

7<sup>th</sup>- Students will build their shield and turn it in upon returning to school.

8<sup>th</sup>- Students will add a light feature (series circuit) to their shield and bring it in upon returning to school.

Coat of Arms



**Career and Technical Education  
Middle School (Grades 6-8)  
Career Exploration (Session 4)**

**Days 18-20: Review Days 8-10 Lesson 5: Manufacturing, Government & Public Administration, STEM, & Marketing**

<b>Standards</b>	<ul style="list-style-type: none"> <li>• Formulate career ideas.</li> <li>• Learn more about careers in the Manufacturing, Government &amp; Public Administration, STEM, &amp; Marketing</li> <li>• Make predictions about future career aspirations.</li> </ul>
<b>Learning Targets/ I Can Statements</b>	<ul style="list-style-type: none"> <li>➤ I can analyze my interests, abilities and skills to determine the career choices for myself.</li> </ul>
<b>Essential Question(s)</b>	4. What are some future career fields that interest you from today's lesson?
<b>Resources</b>	<ul style="list-style-type: none"> <li>• Session 4 – Manufacturing, Government &amp; Public Administration, STEM, &amp; Marketing</li> <li>• <b>Handouts</b> Career exploration (worksheets)--See <i>Student Lesson Files</i> folder</li> </ul> <p style="text-align: center;">Paper, pen and pencil</p> <p>You will need to use the template provided for all assigned activities in this lesson.</p>
<b>Learning Activities or Experiences</b>	<p><b>Opening Activity</b> (10 minutes): <b>Brochure</b> (commercial)</p> <p><b>Lesson review:</b> Career awareness is the first process for you to begin exploring career possibilities. The activities you will complete will help you develop Educational, Occupational Exploration, and Career Planning awareness while exploring sixteen career clusters. Career Clusters are groupings of jobs that share common characteristics.</p> <p>By looking at clusters of jobs, you may find a variety of careers with similar characteristics in which you may be interested. The Career Clusters shown in this activity book were developed by the US Department of Education.</p> <ul style="list-style-type: none"> <li>• <b>Application</b> (30 minutes) <b>Career Awareness (<i>Manufacturing, Government &amp; Public Administration, STEM, &amp; Marketing</i>)</b></li> <li>• <b>Design Challenge 2 days</b></li> </ul> <p>Students will need to complete career awareness worksheets for the following career clusters: Career Exploration Session 4: Manufacturing, Government &amp; Public Administration, STEM, &amp; Marketing and Design Challenge for appropriate grade level</p>
<b>Closing</b>	<p><b>Quiz</b>(10 minutes): <b>Reflection</b></p> <p>Write one paragraph (five to seven sentences) to summarize the career cluster that most interested you after completing the worksheet activities.</p>

**Career and Technical Education  
Middle School (Grades 6-8)  
Career Exploration (Session 4)  
Days 18-20: Review Days 8-10 Lesson 5: Manufacturing, Government & Public  
Administration, STEM, & Marketing  
Career Brochure**

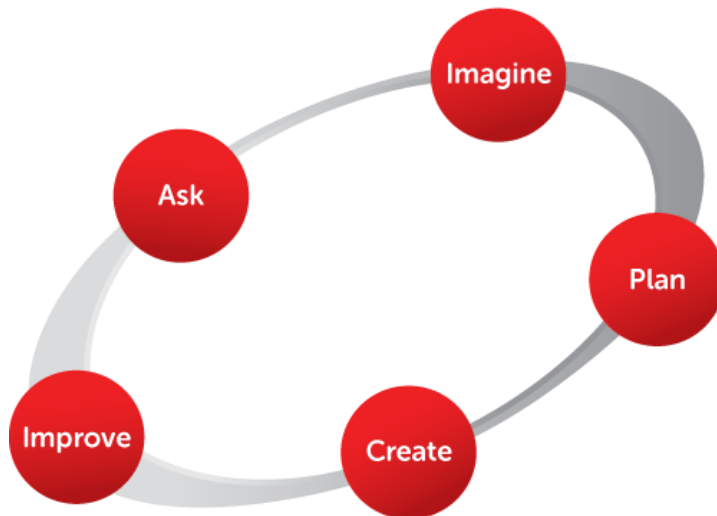
**Design Challenge:**

**After completing and reviewing this career exploration**

Write a reflection about one of the career cluster and your choose career field.

Then create a brochure of your career and career cluster

**Document your Design process using the 6 step design process**



Do your best to be creative.

email brochures to: **Ebony.Lampkin@richlandone.org**