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| **Title**  | Exploring Careers in Aerospace |
| **Introduction**  | Students investigate careers that are available in the aerospace industry by viewing links on a class website.  |
| **Curriculum Alignment**  | 8108 Exploring Technology Systems Blueprint01.01 Create a Career Development Plan. |
| **Learning Outcomes**  | Students review careers associated with aerospace. Students see the connection between these careers, tasks performed in the aerospace unit, local companies, and local community college curriculums. Students will use web resources to identify careers in other areas.Students will identify the aerospace career that appeals to them most. Students will generate a graphic organizer detailing facts about the career. Students will identify their favorite career overall. |
| **Time Required and Location**  | This lesson should take approximately 45 minutes. |
| **Materials Needed**  | Student Pencil and PaperCareer Research Web (www.aerospacecareers.pbworks.com)**Technology resources**Each student should have a computer with internet access. Students can complete this activity with paper and pencil if computer with WP software is not available. For this the teacher will have to create printed copies of all website materials.Teacher should have a method of projecting computer to display histogram of career selections for students. Histogram can be drawn on whiteboard if needed. |
| **Participant Prior Knowledge**  | Students should be aware that they will continue keeping a project log. This can be paper and pencil or computer word processing file. Some work with paper and pencil will be required even if the project log is kept electronically. |
| **Facilitator Preparations**  | Review the website to ensure that all links are active.  |
| **Activities**  | ExploreGive students the Career Research Web address and have them access on their computer. Students should review the information about each career, make categories and arrange the careers into groups. Students should record the group titles and the career names in their project logs.Model LessonTell students that the careers with degrees offered by the community college and those available at a local company have an indicator. Have students review the interviews and other information concerning Wilkes Community College. Students should record observations and questions in their project log.Have students use the link <http://www.mtbaker.wednet.edu/career/definiti.htm> and record the meaning of Apprenticeship (on the job training), Associate Degree (2yr), Bachelor’s Degree (4yr), Masters (6yr), and Doctorate (8yr). Ask students to review the careers on the website again and select the career that appeals to them most. Students should create a bubble map of that career. The bubble map should include career title, salary, education, job outlook, work atmosphere, job description. Content Wrap UpDiscuss situations when a community college might be a good resource for them to use. (Possible answers include transfer degree, interested in a degree from the community college, return to school after being displaced, living at home with parents while getting a degree) Create a histogram on the computer or whiteboard that shows the number of students selecting each job. Ask students to report why they made their decision as they report their career selection to be graphed. Discuss reasons why most jobs were selected. Point out any misconceptions and help students talk through the process of considering why their thinking might be a little off target.**Guided Practice** Have students use the website <http://www.bls.gov/k12/> to select and record one career from each education level. Apprenticeship (on the job training), Associate Degree (2yr), Bachelor’s Degree (4yr), Masters (6yr), and Doctorate (8yr).  |
| **Assessment**  | Ask students to review the careers on the <http://www.bls.gov/k12/> website again and select the career that appeals to them most. Students should create a bubble map of that career. The bubble map should include career title, salary, education, job outlook, work atmosphere, job description.  |
| **Critical Vocabulary**  | Apprenticeship – on the job trainingAssociate Degree – two year Bachelor’s Degree – four yearMaster’s Degree – six yearDoctoral Degree – eight year |
| **Modifications**  | Students can be paired so that at least one of the students is capable of reading instruction sheets. Students who finish quickly can be given the students websites below and allowed to explore careers in other areas. |
| **Alternative Assessments**  | Arrangement can be made for students with special needs to have the directions read to them and to answer the questions orally. |
| **Supplemental Information**  | Vocabulary:Definition of degrees - <http://www.mtbaker.wednet.edu/career/definiti.htm>Teacher Material for researching careers:Burea Labor Statistics - <http://www.bls.gov/k12/teachers_guide.htm>Related material for student review: Burea Labor Statisics - <http://www.bls.gov/k12/>Kids.gov careers - <http://www.kids.gov/6_8/6_8_careers.shtml>Career Ship - <http://mappingyourfuture.org/planyourcareer/careership/> |
| **Author Info**  | TeacherRussell SparksEast Wilkes Middle School, Wilkes County SchoolsExploring Technology Grades 6th – 8th CurriculumExploring Technology is an entry level CTE course giving an overview of various areas of technology and careers associated with these areas. The externship involved work in the applied engineering school of Wilkes Community College and local aerospace industries. I was introduced to the tools and concepts used to prepare students for careers in the aerospace industry and given an opportunity to see the industry processes. This will allow me to give my students a better understanding of the steps needed to prepare themselves for the future.MentorLyndell DuvallWilkes Community CollegeChair Applied Engineering Technologies, Industrial and Engineering Technology |