CTE Warm-up Activity

TV/MOVIE TIME

LIST CHARACTERS YOU SEE ON TV SHOWS OR IN THE MOVIES. THEN LIST THE CAREERS THEY WORK IN AND THE SCHOOL CLASSES THEY MIGHT NEED FOR THEIR CAREERS. (WE DID THE FIRST ONE FOR YOU!)

<table>
<thead>
<tr>
<th>TV/Movie Character</th>
<th>Career</th>
<th>Classes needed for that career</th>
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<tr>
<td>Jethro Gibbs - NCIS</td>
<td>Forensic Science</td>
<td>Math, Science, Law, Criminal Justice</td>
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<td>Special Agent</td>
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What is a Career Cluster?

A career cluster is a group of careers that share common features. Career clusters guide CTE curriculum that combines similar workforce skills with academic standards. If you like one job in a cluster, you may find other jobs in that cluster that you will like as well, and they may share similar skill sets.

Students, parents, and educators can use these clusters to help focus their education and career plans. Schools can ensure that students obtain the necessary knowledge, competencies, certifications, and training for success in a particular career pathway by using these as resource tools for planning.

In our middle schools, we offer courses in several of the Florida career clusters. Once you get to high school check out the CTE Secondary Guide at www.sdhc.k12.fl.us. For more information about Florida’s Career Clusters, visit www.fldoe.org/workforce/programs/
Career Cluster Descriptions

BUSINESS, MARKETING, AND FINANCE

Business is everywhere you look. The Business, Management & Administration sector includes a wide array of career opportunities and touches just about every form of industry: medical, financial, hospitality, real estate, food service, and many more. Whether you have an interest in sales, accounting, administration, account management, or technology, by learning the various techniques and principles of business, this cluster will provide a foundation for a rewarding future.

Career Paths
• Sales Manager
• Accountant
• Entrepreneur
• International Account Manager

AGRICULTURE, FOOD, AND NATURAL RESOURCES

As the world’s population continues to grow, we will need skilled professionals to help develop new food resources, foster our animals and protect our oceans, lakes and forests. Working within this career field, you may use principles of biology, chemistry and other sciences to study farm crops and animals, and help to conserve our natural resources. If you have an interest in feeding the world, developing new food resources, monitoring and assisting animal species, and fostering healthy oceans, lakes and forests, the Agriculture, Food & Natural Resources curriculum may be for you.

Career Paths
• Agriculture Sales/Broker
• Fish & Game Officer
• Environmental Scientist
• Botanist
• Biotechnician

ARTS, A/V TECHNOLOGY & COMMUNICATION

This career cluster includes programs that allow for the exploration and self-expression in more creative arts. If you love taking photographs, designing clothing, or writing or producing music or films, this is the cluster for you. If you have a gift for words, music, or using images to communicate, then you may want to take some of the courses in this area.

Career Paths
• Digital Photographer
• Videographer
• Web Designer
• Fashion Designer
• Graphic Designer

EDUCATION AND TRAINING

Because learning is a part of everyday life—and a significant factor in the development of future generations—we need people to teach others, young and old. Teachers and other education administrators provide this instructional leadership, while also managing day-to-day activities in schools, colleges, even childcare centers. A recent 10-year study found that employment of teachers is expected to grow by 12%. If you like teaching others how to understand the way things work or grow or change, this may be the area for your career exploration.

Career Paths
• Childcare Center Director
• Guidance Counselor
• School Psychologist
• Teacher
• Teacher’s Aide

HEALTH

Health-care professionals combine science and medical technology with the human touch and compassion for millions of people from newborns to the critically ill. Although hospitals only account for one percent of all health-care establishments, they employ 35 percent of all workers. Health-care workers at all levels of training will continue to be in demand as seven of the 20 fastest growing occupations are health-care related. The industry is expected to produce 3 million new wage and salary jobs—more than any other industry. If you want to help sick people feel better, check out careers in this cluster.

Career Paths
• Nurse
• Dental Hygienist
• Physician
• Pharmacy Technician
• Surgeon

STEM (SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH)

Science. Numbers. Problem Solving. Technology. When all of these subjects align to solve problems, brilliant solutions can result. If you choose a career in engineering, for example, you will apply principles of each of these disciplines to develop logical and economical solutions to technical problems. By combining science and math with technology, engineering and compatible career fields like Information Technology, you can discover commercial applications to serve the needs of society. Be sure to look for STEM if you love the idea of blending science, technology, engineering and math!

Career Paths
• Engineer (civil, biomedical, aerospace, mechanical, etc.)
• Air Traffic Controller
• Computer Network Technician
• Computer Repair Technician
• Gaming Programmer

HOSPITALITY AND TOURISM

This career cluster introduces students to opportunities that exist in the food service and hospitality industry. You will learn about culinary careers, including operating a restaurant, and working as a professional chef, while gaining leadership and employability skills. You will also become familiar with the basics of nutrition and wellness, and discover personal development characteristics that will help to insure that you have a positive and successful time in middle school. If you love to cook, make guests feel welcome, and are creative and detail-oriented, this cluster just might be your favorite.

Career Paths
• Chef
• Restaurant Owner
• Caterer
• Bed and Breakfast Manager
• Pastry Chef

GARDENING AND NATURAL RESOURCES

As the world’s population continues to grow, we will need skilled professionals to help develop new food resources, foster our animals and protect our oceans, lakes and forests. Working within this career field, you may use principles of biology, chemistry and other sciences to study farm crops and animals, and help to conserve our natural resources. If you have an interest in feeding the world, developing new food resources, monitoring and assisting animal species, and fostering healthy oceans, lakes and forests, the Agriculture, Food & Natural Resources curriculum may be for you.

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**Middle School Course Descriptions by Name (E - I)**

**EXPLORING TECHNOLOGY:**
In this course, students will explore and understand the requisites and special skills for careers in our technological world.

**FUNDAMENTALS OF AGRICULTURE, FOOD, AND NATURAL RESOURCES:**
The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Agriculture, Food, and Natural Resources career cluster. The content includes agricultural literacy, importance of agricultural systems, food safety, human relations, and leadership. Topics include robots, foodborne illness, animal and plant systems, and energy and electricity.

**INTRODUCTION TO LAW, PUBLIC SAFETY AND SECURITY:**
The purpose of this course is to introduce students to the field of law, public safety and security and to acquaint students with the requisites and special skills for careers in this career cluster. The content includes the introduction to law, public safety and security, industrial, homeland security and public safety, and a career exploration unit.

**MIDDLE SCHOOL CTE PROGRAMS BY SITE (G - M)**

**Middle School CTE Programs by Site (G - M)**

**EXPLORING AEROSPACE:**
The purpose of this course is to provide an opportunity to explore aerospace technology. Laboratory experiences involving aircraft, electronics, computers, and the technology industry will allow students to explore the requisites and special skills for careers in our technological world. Laboratory experiences and career awareness seminars will allow students to explore the requisites and special skills for careers in our technological world.

**EXPLORING COMMUNICATIONS TECHNOLOGY:**
The purpose of this course is to provide an opportunity to explore communications technology. Laboratory experiences involving electronics, computers, and the technology industry will allow students to explore the requisites and special skills for careers in our technological world. Laboratory experiences and career awareness seminars will allow students to explore the requisites and special skills for careers in our technological world.

**MIDDLE SCHOOL CTE PROGRAMS BY SITE (E - I)**

**EXPLORING TECHNOLOGY:**
In this course, students will explore and understand the requisites and special skills for careers in our technological world.

**TECHNOLOGY (8TH GRADE - HIGH SCHOOL CREDIT):**
This course will focus on the kinds and levels of work performed in technology fields. Laboratory experiences will allow students to explore the requisites and special skills for careers in our technological world. The course will include topics such as the basics of electronics, computers, and the technology industry.

**CAREER RESEARCH AND DECISION MAKING:**
The purpose of this course is to provide an opportunity to explore occupation areas and prepare students for various IT careers.

**EXPLORING POWER AND ENERGY TECHNOLOGY:**
This course goes to the core components of electricity, explore the requisites and special skills for careers in this career cluster. The content includes: employment in agriculture, role of science, math, reading, and writing skills, and management skills in agriculture and the introduction to law, public safety and security.

**GAMES AND SIMULATION FOUNDATIONS:**
This course goes to the core components of electricity, explore the requisites and special skills for careers in this career cluster. The content includes: employment in agriculture, role of science, math, reading, and writing skills, and management skills in agriculture and the introduction to law, public safety and security.
**Middle School CTE Programs by Site (O - T)**

**Orange Grove**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Rodgers**

- **Agriculture Foundations 1st**
- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Digital Disciplines**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Robotics Technology & Engineering**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Family & Consumer Sciences**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Health Science**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Information Technology**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Medical Assisting**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Technology**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

**Exploring Transportation**

- **Career Research and Decision Making**
- **Life Skills Training**
- **Digital Disciplines**
- **Technical Occupations**
- **Principles of Food**

- **Health Occupations Students of America**

Do you want to earn high school credit? (8TH GRADE - HIGH SCHOOL)

(Students who complete a school credit course, you can learn valuable skills that can prepare them for their future in health care and the medical professions. Students study basic communication and teamwork skills while preparing for the workforce.)

**ORIENTATION TO HEALTH SCIENCE**

Do you want to be a doctor, dentist, nurse, physical therapist, or pharmacist? You can explore these health occupations and find out which career path will be best for you. You will learn medical terminology, first aid, and the basic health functions with hands-on experiences in a laboratory environment. This course is the exciting first step for this program.
Middle School CTE programs provide students with opportunities to explore interests that can brighten their future while preparing them for high school, college, and careers!
Career & Technical Education
Middle School Guide 2019-2020

School Board Members
Steve P. Cona III
Lynn L. Gray
Stacy A. Hahn
Karen Perez
Tamara P. Shamburger
Melissa Snively
Cindy Stuart

Superintendent of Schools
Jeff Eakins

Workforce Connections Officer
Warren Brooks

General Director
Career, Technical and Adult Education
Michael Ramsey

Director
Career and Technical Education
Chris Jargo

Career, Technical, and Adult Education • 5410 N. 20th Street, 2nd Floor, Tampa, FL 33610
(813) 231-1860 • www.sdhc.k12.fl.us  type “Go CTE” in search box

Continuous Notification of Nondiscrimination - Pursuant to Title VI, Title IX, Section 504/Title II and other civil rights regulations, the School District of Hillsborough County does not discriminate nor tolerate harassment on the basis of race, color, ethnicity, national origin, religion, gender, gender identity, sexual orientation, age, disability, marital status, genetic information or pregnancy in its educational programs, services or activities, or in its hiring or employment practices; and it will take immediate action to eliminate such harassment, prevent its recurrence, and address its effects. The District also provides equal access to its facilities to the Boy Scouts and other patriotic youth groups, as required by the Boy Scouts of America Equal Access Act. The following person has been designated to handle inquiries regarding the non-discrimination policies: Dr. Pansy Houghton, Executive Officer, Compliance, 901 East Kennedy Boulevard, Tampa, FL 33602, (813) 272-4000, pansy.houghton@sdhc.k12.fl.us