

15. SCIENCE TECHNOLOGY, ENGINEERING & MATH

Planning, managing, and providing scientific research and professional and technical services including (e.g. physical science, social science, engineering) laboratory and testing services and research and development services.



INTERESTS

- Collecting rocks or fossils
- Identifying plants and animals
- Conducting science experiments
- Watching the weather
- Designing and test vehicles or planes
- Developing new products or machinery
- Stargazing
- Designing experiments

CAREERS

Anthropologist
 Physicist
 Environmental Scientist
 Engineer (nuclear, industrial, Chemical ,
 Civil, Petroleum)
 Aerospace Engineer
 Computer Hardware Engineer

The 16 CAREER CLUSTERS

A Career Cluster is a grouping of occupations and broad industries based on commonalities

The slides will give you an understanding of each Career Cluster.

1. Agriculture, Food & Natural Resources

The production, processing, marketing, distribution, financing and development of agricultural products and resources including food, fiber, wood products, natural resources, farm and animal products.

INTERESTS

Enjoy working outdoors and be physically active
 Enjoy Nature, taking care of pets, identifying environmental hazards and caring deeply about protecting the environment

CAREERS

- Agricultural Science Teachers
- Veterinarians
- Forest Fire Fighter
- Biochemists and Biophysicists
- Food Inspectors and Scientists
- Cartographers
- Game Warden and Animal Breeders
- Farm workers and laborers, farms and animals
- Nursery and greenhouse workers



16. Transportation, Distribution & Logistics

Planning, management and movement of people, materials and goods by road, pipeline, rail, air, and water and related services such as transportation, infrastructure planning and management, logistics services, mobile equipment and facility maintenance.



INTERESTS

- Playing with automobiles or trains
- Loves flying
- Loves boating
- Interested in knowing how machines work
- Interested in fixing all types of machines
- Interested in the distribution of goods

CAREERS

Commercial Pilots
 Traffic Technicians
 Transportation Specialist
 Aerospace Technicians
 Air Cargo Handlers
 Bus and Auto Mechanics
 Motorboat Mechanics
 Electrical Equipment Installers

2. Architecture & Construction

Careers in designing, planning, managing, building and maintaining the construction industry.

INTERESTS

- Enjoy working with your hands, using tools
- Have an aptitude for math and science
- Like solving or analyzing problems
- Building homes or other structures
- Building bridges and roadways

CAREERS

Architect
 Brick Mason or Cement Mason
 Electrician or Plumber
 Carpenter
 Structural Steel Workers
 Construction Inspector
 Elevator Installer/Repairer
 Roofer



3. Arts, A/V Tech & Communications

Careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing art and journalism and entertainment services.



INTERESTS

- Drawing pictures or cartoons to amuse people
- Performing music, drama and or dance
- Creating an original video or film
- Sketching or painting pictures
- Taking photographs
- Making jewelry, sculpture or ceramics
- Designing a newspaper layout

CAREERS

Graphic Artist
 Art , Theatre or Music Teacher
 Newspaper Reporter/Digital Journalist
 Photojournalist
 Author or Writer or Director
 Musician
 Youtube Content Developer

SUGGESTED HIGH SCHOOL COURSES

Art, Graphic Art, Humanities, Journalism
 English, Communications, Music,
 Political Science, Photography

13. MANUFACTURING

Planning, managing and performing the procession of materials into intermediate or final products and related professional and technical support activities as production planning and the control, maintenance and engineering of products.



INTERESTS

- Sewing, weaving, knitting or other projects
- Building things such as wood projects
- Taking machine shop classes
- Repairing machinery
- Installing and repairing home stereo equipment
- Working with leather goods
- Operating a printing press
- Assembling Products

CAREERS

Assembly Line Worker
 Machine Operator
 Welder
 Cabinet Maker or Furniture Maker
 Textile Inspector, Tester
 Health and Safety Specialist
 Industrial Psychologist
 Operations Research Analyst
 Laborer

4. Business, Management & Administration

Planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. These opportunities are available in every sector of the economy.



INTERESTS

- Running your own business
- Developing web pages
- Preparing reports
- Analyzing data
- Being a club officer
- Organizing a school event or fund-raiser
- Managing tasks for a group

CAREERS

Accountant or CPA
 Financial Manager
 Company Executive (CEO, CFO)
 Office Manager
 Public Relations Specialist
 Management Analyst
 Billing Clerk

14. Marketing, Sales & Service

Planning, managing and performing marketing activities to reach organization objectives.



INTERESTS

- Give people advice on products they buy
- Sell products for fundraisers
- Take tours of houses for sale
- Design and model clothes
- Decorate homes or rearrange furniture
- Likes working with numbers
- Enjoys shopping
- Setting up a fashion show

CAREERS

Real Estate Agent or manager
 Real Estate Appraiser
 Fashion or Floral Designer
 Retail Store Manager or Clerk
 Customer Service Representative
 Sales Manager
 Fashion Model

11. Information Technology

Design, development, support and management of hardware, software, multimedia and systems integration services.



INTERESTS

- Play video games
- Assemble computer parts or repair systems
- Write software programs
- Develop web pages
- Surf the internet
- Analyzing data or information
- Documenting and recording information
- Learn or install software programs

CAREERS

Computer System Engineers, Analysts or Architects
Database Administrators
Network Systems Analysts
Web Administrators
Business Intelligence Analysts
Computer Security Specialists
Computer Programmer

5. Education & Training

Planning, managing and providing education and training services, and related learning support services.



INTERESTS

- Tutoring or babysitting young children
- Preparing lessons to teach (reading, math, science)
- Attending a summer camp
- Help others draw, write or read
- Create crafts, art or bulletin boards
- Play games with spelling, reading or math
- Coaching sports

CAREERS

School Counselor or School Psychologist
Teacher or Teacher's Aide
College Advisor
Day Care Center Director
Librarian
Vice Principal or Principal

12. LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY

Planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support.



INTERESTS

- Reading mystery novels or watching mystery movies
- Following court cases in the news
- Listening to a police scanner
- Volunteering to search for missing pets or children
- Participating in a search and/or rescue training
- Volunteering for the local fire department

CAREERS

Attorney or District Attorney
Corrections Officer
Court Reporter or Clerk
Police Officer or Detective
Polygraph Examiner
Fire Fighter or Inspector
Forensic Artist
Paralegal
Probation and Parole Officer
Military/Armed Forces

6. FINANCE \$\$\$\$\$\$

Planning, service for financial and investment planning, banking, insurance and business financial management.



INTERESTS

- Investing money
- Developing a budget
- Using spreadsheets and financial computer programs
- Balancing a checkbook
- Being a treasurer of a club
- Organizing a fund-raiser
- Planning a mock stock market game
- Studying investments and the stock market

CAREERS

Actuary
Appraiser
Financial Institution Manager (Banker)
Loan Officer (Mortgage or others)
Securities Trader
Tax Preparer or Auditor
Claim Examiner or Adjuster

7. GOVERNMENT & PUBLIC ADM.

Executing governmental functions to include Governance; National Security, Foreign Service, Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state and federal levels.



INTERESTS

- Participating in a debate or on a debate team
- Researching and writing grants
- Learning and speaking a foreign language
- Making speeches
- Running for class or club office
- Volunteering as a legislative aide
- Volunteering for school board/town board position
- Campaigning for political candidates

CAREERS

Government Investigator (FBI, CIA, DIA)
Public Works Director
City or Town Manager
Congressional Aide
Legislative Assistant
State Department Official

9. Hospitality and Tourism

Management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.



INTERESTS

- Planning vacations or school trips
- Cooking and baking
- Participating in sports
- Exercising and working out
- Planning school functions
- Recreational activities
- Being a lifeguard
- Reading about other countries and cultures

CAREERS

Recreational Leader
Camp Counselor
Travel Agent
Hospitality Manager
Hotel Manager
Chef/Baker/Server/Cook
Tour Director

8. HEALTH SCIENCE

Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services and biotechnology research and development.



INTERESTS

- Learn first aid or CPR
- Volunteer at a retirement home
- Learn how the body/mind work
- Watch medical shows on TV
- Be a team manager on a school athletic team
- Volunteer at a rescue squad

CAREERS

Dietician
Athletic Trainer
Pharmacist
Physician Assistant, Nurse, Radiologic Tech
Music or Art Therapist
Dentist or Physician or Surgeon
Recreational, Occupational Therapists
Physical Therapist
Dental Lab Technician

10. HUMAN SERVICES

Preparing individuals for employment in career pathways that relate to families and human needs.



INTERESTS

- Listening and helping friends with problems
- Working with the elderly
- Shopping and comparing prices
- Volunteering
- Delivering food and clothes to people in need
- Serving home at a homeless shelter
- Making family menus

CAREERS

Child Care Worker
Recreational Worker
Rehabilitation or Substance Abuse Director
Deaf Interpreter Associate
Nutrition Counselor
Funeral Director or Clergy