

## CAREER FUNNEL

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The final section of the report, career funnel, is based on the technique coined by the US Department of Education to group similar occupations and industries. In total, there are 16 Career Clusters in the Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and career.

As an organizing tool for curriculum design and instruction, Career Clusters provide the essential knowledge and skills for the 16 Career Clusters and their Career Pathways. It also functions as a useful guide in developing programs of study bridging secondary and postsecondary curriculum and for creating individual student plans of study for a complete range of career options. As such, it helps students discover their interests and their passions, and empowers them to choose the educational pathway that can lead to success in high school, college and career.

According to the detailed analysis, **SCIENCE, TECHNOLOGY, ENGINEERING AND MATHS** is your major career cluster. However, there are a few more clusters in which you have shown your inclination and your counselor can guide you on all the other possible options. Jobs in this career cluster involve planning, managing, and providing scientific research and professional technical services (e.g., physical science, social science, and engineering) including laboratory and testing services, and research and development services.

### Career Pathways

A career pathway is an area of concentration within a career cluster. Each pathway contains a group of careers requiring similar academic and technical skills as well as similar industry certifications or postsecondary education. This career cluster has two pathways: engineering and technology, and science and math.

- **Engineering and Technology:** This pathway includes all of the many different kinds of engineers who work in both government and the private sector. Jobs include systems engineer, safety engineer, chemical engineer, transportation engineer, optical engineer, nuclear engineer, mechanical engineer, industrial engineer, electrical engineer, civil engineer, biotechnology engineer, and agricultural engineer.
- **Science and Math:** This pathway includes a variety of occupations, from research scientists and mathematicians, to technicians, such as hazardous materials technicians or nuclear technicians. This pathway also includes scientific specialists, such as herpetologists, physicists, botanists, biologists, toxicologists, paleontologists, ornithologists, chemists, linguists, geologists, astronomers, and archaeologists.