



S. T. E. M. EXPERIENCE



TODAY'S AGENDA

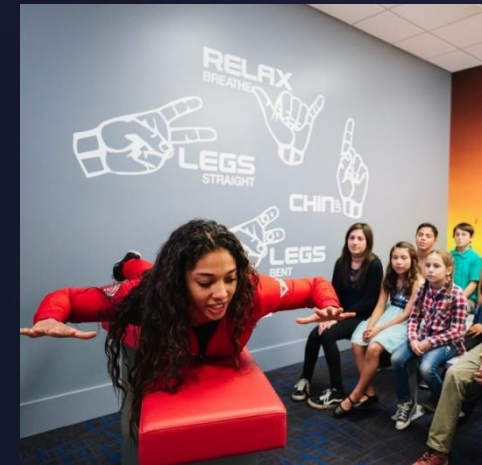
- *PHYSICS DEMO*

- *PRESENTATION*

- *STEM ACTIVITIES*

- *FLY!!!*

- *WRAP UP*



WHAT IS STEM?



SCIENCE



TECHNOLOGY



ENGINEERING



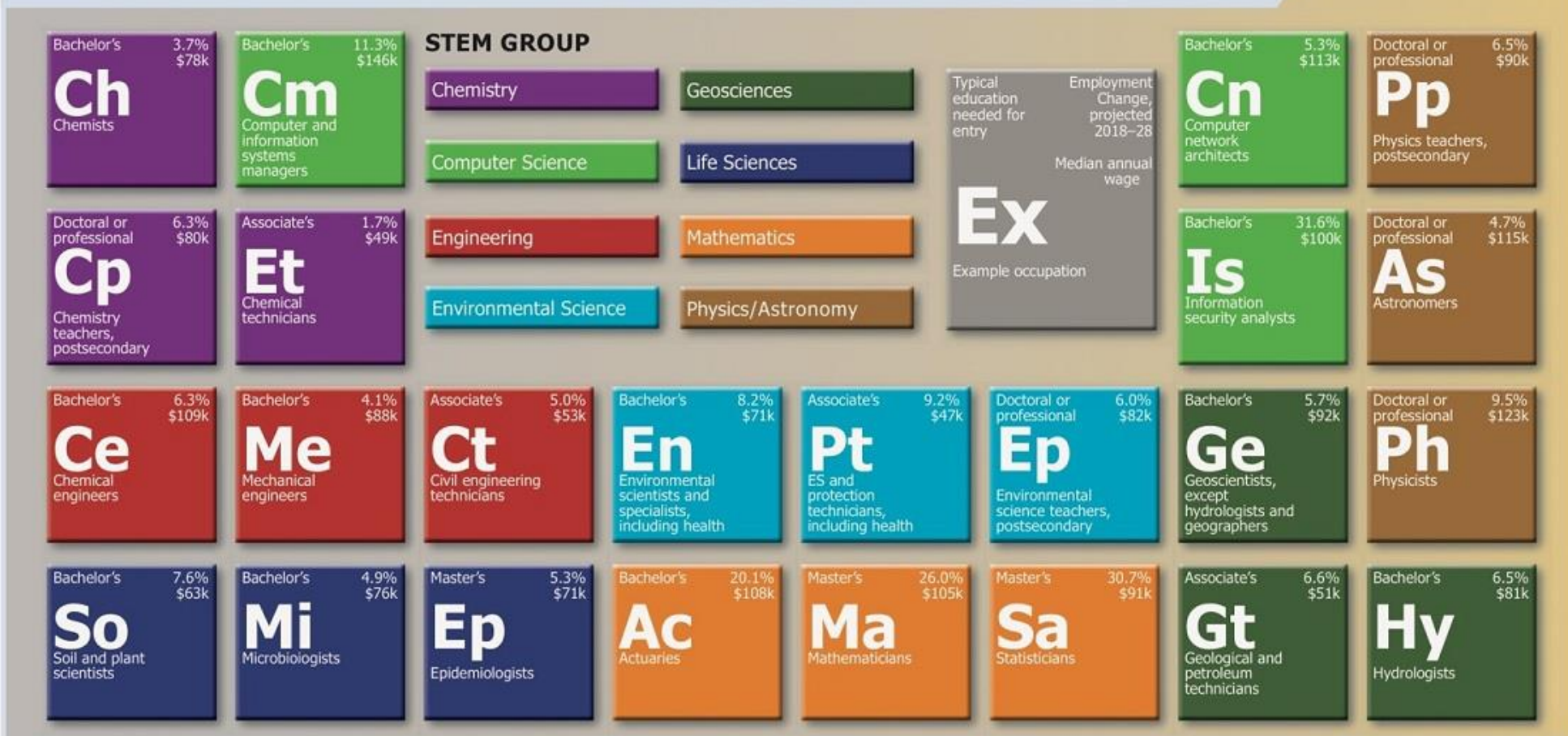
MATH

EXCITING FUTURES IN STEM



BLS periodic table of science, technology, engineering and mathematics (STEM) occupations

The periodic table of chemical elements, created by Dmitry Mendeleev in 1869, is one of the most important achievements in modern science. To celebrate this achievement, BLS has created our own periodic table! Instead of elements, we have used Science, Technology, Engineering and Math (STEM) occupations. Workers in STEM occupations use science and mathematics to understand how the world works and to solve problems.



SOLVE REAL PROBLEMS



STEM is used in the real world to solve problems and improve lives.

WIND TUNNEL TESTING

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WIND TUNNEL TESTING

A collage of three images related to wind tunnel testing. The left image shows a person in a wind tunnel wearing a yellow helmet and a white mask. The middle image shows a model of an aircraft in a wind tunnel. The right image shows a large globe in a wind tunnel.

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WE MAKE STEM FUN!

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Wind Tunnel*



NEWTON'S LAW OF INERTIA

Any object in motion
tends to stay in

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motion unless acted upon
by an
unbalanced force.



PHYSICS OF SKYDIVING

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PHYSICS OF SKYDIVING

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WHAT FORCES ARE AT PLAY?

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WHAT FORCES ARE AT PLAY?

Weight (mg)



F_g

F_g



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SCIENCE OF SKYDIVING

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WHAT FORCES ARE AT PLAY?

A person is shown in a wind tunnel, suspended by four red cables. The person is in a horizontal position, and the background is a light blue sky. The person's wings are visible, and they appear to be in a flying posture. The cables are attached to the person's arms and legs, and they are held in place by a structure that is not fully visible. The overall scene is a simulation of flight in a wind tunnel.

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INDOOR VS. OUTDOOR

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QUESTIONS?



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