



S.T.E.M. EXPERIENCE



TODAY'S AGENDA

- PHYSICS DEMO

- PRESENTATION

- STEM ACTIVITIES

- FLY!!!

- WRAP UP



WHAT IS STEM?



SCIENCE



TECHNOLOGY



ENGINEERING



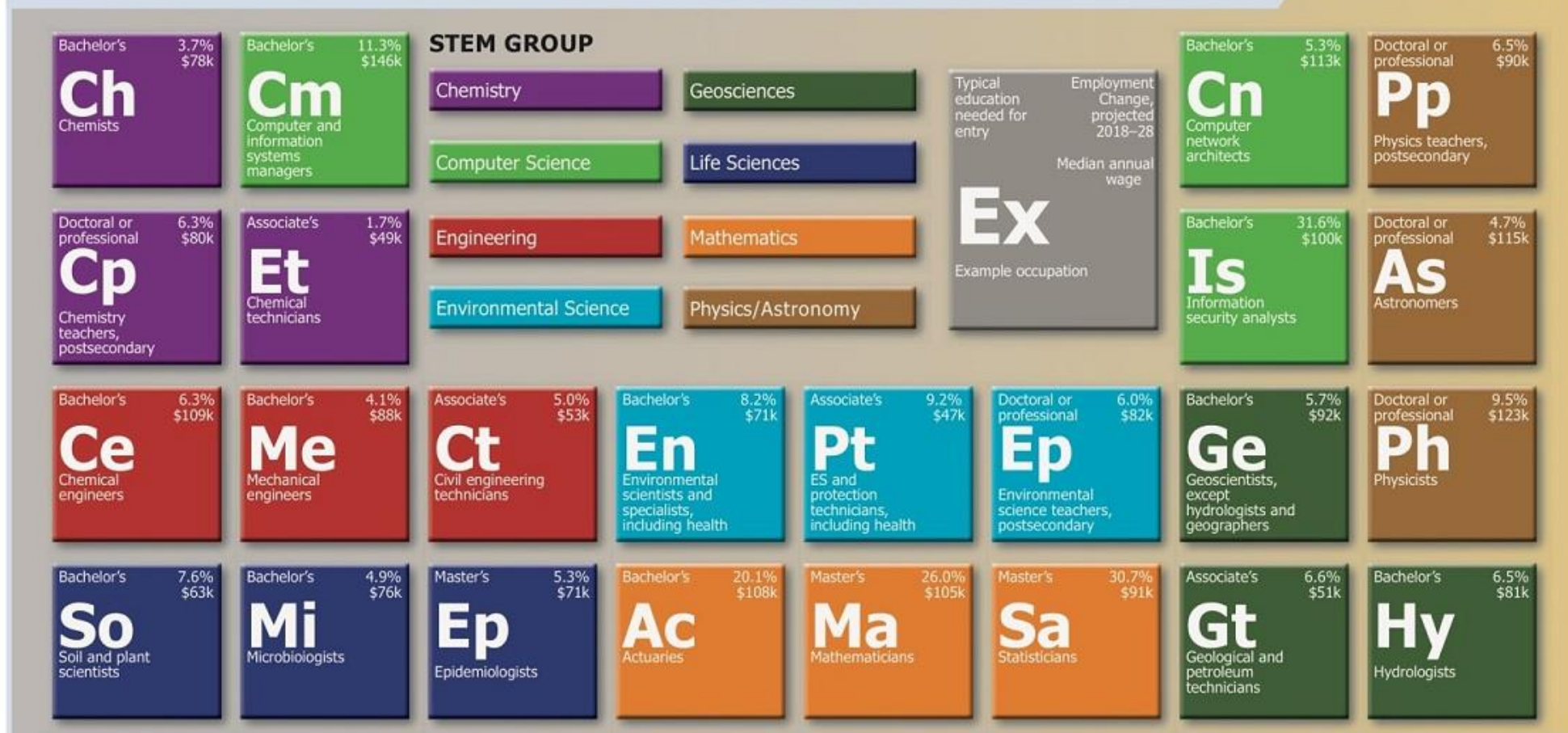
MATH

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.

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WE MAKE STEM FUN!

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WIND TUNNELS

- 1. Design Wind Tunneling Air Tunnel
- 2. Design Wind Tunneling Air Tunnel
- 3. Design Wind Tunneling Air Tunnel
- 4. Design Wind Tunneling Air Tunnel
- 5. Design Wind Tunneling Air Tunnel
- 6. Design Wind Tunneling Air Tunnel

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NEWTON'S LAW OF INERTIA

Any object in motion
remains in motion

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Any object at rest
remains at rest
unless acted upon by an
unbalanced force.



PHYSICS OF SKYDIVING

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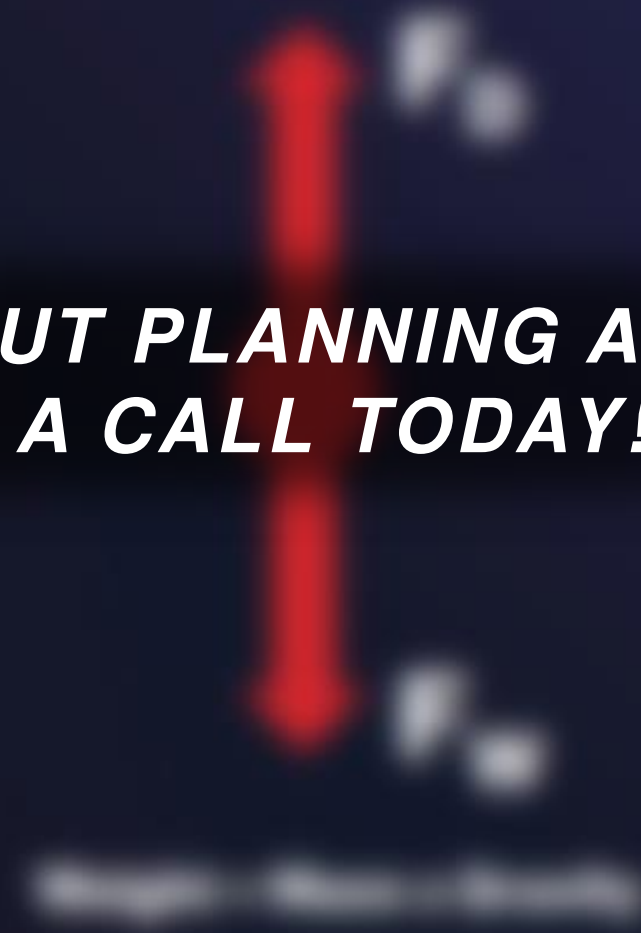


PHYSICS OF SKYDIVING

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WHAT FORCES ARE AT PLAY?

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WHAT FORCES ARE AT PLAY?

Diagram illustrating the forces acting on a skydiver:



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SCIENCE OF SKYDIVING

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WHAT FORCES ARE AT PLAY?

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INDOOR VS. OUTDOOR

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INDOOR VS. OUTDOOR

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The background is a dark blue gradient with a collage of faint, white scientific and mathematical sketches. These include a 3D coordinate system with x, y, and z axes, a chemical structure of 4-chloro-3-hydroxyacetophenone, a graph of a curve passing through the origin, a velocity vector field with streamlines, a 3D arrow pointing upwards, a circular diagram with four quadrants, and a diagram of a sphere with intersecting lines.

QUESTIONS?



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