The "COMMON LANGUAGE" of SCIENCE

Name: _____ Organization: _____

Job Title: _____ Email: _____

Knowledge from education; demonstrated in jobs!

Which Science Topics Do You Use? Check all that apply!

GENERAL SCIENCE TOPICS	
Ask questions	
Conduct investigations	
Leverage resources	
Develop solutions	
Interpreting graphs, tables, pictures or other representations of scientific knowledge	
Communicate findings	
See connections among different areas of knowledge	
Analyze claims for scientific merit	
How science and technology affect our society	
Description and explanation of real world objects, systems or events	
Prediction	
Design of systems or courses of action	
Design and conduct scientific investigations	
Concepts: Uncertainty, error, range, tolerances, accuracy, precision	
Tools: Balance, thermometer, measuring tools, electronic measuring devices, graduated cylinder	

LIFE SCIENCE	
Life cycles	
Heredity: Traits transmitted from one generation to the next	
Evolution	
Ecosystems of parts are related and how they interact	
How communities of living things change over a period of time	
How materials cycle through an ecosystem and get reused in the environment	
Analyze how humans and the environment interact	
Measurement	
Knowledge of cells and functions	
Reproduction, growth, response, movement of animals and plants	
Functions of bacteria	
Cost-benefit analysis	
Issues related to new technologies	
Appreciation of the balance of nature, and the effect that humans have on the natural world	
Life cycles of organisms	
Respiration	
Genetics	
Reproduction (plants and animals)	
Use of science in manufacturing and production	

PHYSICAL SCIENCE	
Forms of energy	
Electricity and Magnetism interactions	
Describe how living things and human technology change matter and transform energy	
How changes in matter are related to changes in energy	
Motion of objects. Relate motion to energy and energy conversions	
Waves and Vibrations	
Sound waves	
Light phenomena	
Waves and vibrations transfer energy	

EARTH SCIENCE	
Systems and subsystems	
Earth's surface	
Geological processes, Analyze effects of technology on earth's surface and resources	
Characteristics of water and its movement	
Analyze human activities with the hydrosphere	
Weather	
Relationships between human activities and atmosphere	
Solar system, galaxy, universe	

You gain knowledge at school and work.
With this you can earn a living and advance in your career!

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GENETICS

Cloning, genetic engineering, genetic fingerprinting	
Molecular human development	
Nature vs. nurture	
Mutations	
Genetically modified foods	
The genetics of race	
Molecular clocks & evolution	
Immunity, and medical technology	
Blood typing	
Color blindness	
Transgenic organisms	

BIOLOGY

Cells	
Microscope use	
Heredity	
Ecology, ecosystems	
Living things – including all five kingdoms	
Anatomy and physiology	

PHYSICS

Mechanics and heat	
Force and motion	
Matter and energy	
Machines	
Temperature, heat and change of phase	
Light, electricity, and sound	
Wave nature and wave interactions	
Study of light	
Sound and electricity	

CHEMISTRY

Motion, forces	
Magnets, energy the atom, chemical formula writing	
Acids and bases	
Carbon compounds	
Chemical bonding	
The relationship between atomic structure and chemical properties chemical and physical properties of elements and compounds and reactions	

MICROBIOLOGY

Metabolism	
Growing and culturing bacteria	
Gram staining, Petri plates and sterile technique	
Microbial diseases, viruses	
Protozoa, fungi	
Sterilization and disinfection	
Epidemiology, microbial STD's, AIDs	
Biosphere 2	
Common micro-life on and in the human body	
Bioluminescence	
Planet seeding and exobiology	
Microbes	
Bugs that kill bugs	

ANATOMY & PHYSIOLOGY

Structures and functions of the human body	
Body systems	

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