

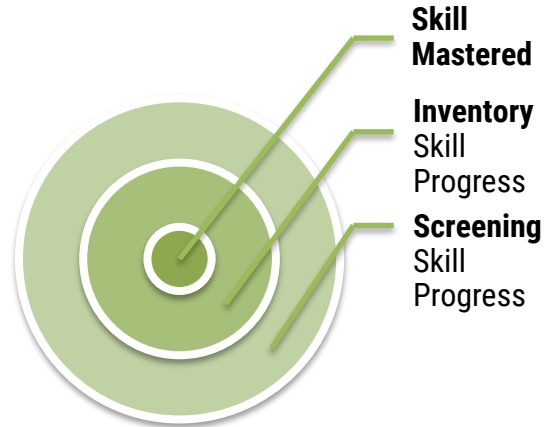
LION for Science

Bridging Assessment and Instruction



Science Assessment Solution

KG – 5 (English & Spanish)
6 – Biology
Universal Screener
Pre and Post-Test
Track Progress Year-to-Year
Adaptive and Individualized



Key Concepts

Matter and Energy
Force, Motion, and Energy
Earth and Space
Organisms and the Environment

Scope

Benchmark
Progress Monitoring
Customized to District Needs

Easy Administration

Group Administered
Web-Based, Lab Setting
20-45 Minutes

Screening Concepts

Previous Grade Level
Vertically Aligned to Grade Level Readiness

Inventory Concepts

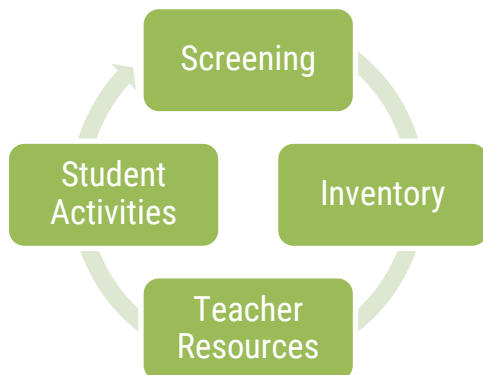
Student Grade Level Readiness
Four Questions Per Concept

Targeted, Actionable Results

Immediate Scoring, Grouping, and Reporting
Teacher-Based Instructional Resources
Student- Based Instructional Resources

The LION Difference

TEKS-Based Results
Correlations and Comparisons to STAAR/EOC
Comparisons to District Assessments and Benchmarks



The LION for Science framework is based on the student expectations. Student expectations are grouped into a Screening and an Inventory. For each grade level, the essential (readiness) expectations were identified. Assessment items based on these expectations are considered the **Inventory** and help teachers track grade-level learning progress throughout the school year. Pre-requisite expectations, based on the vertical alignment and skills development, were then identified for the previous grade level. Assessment items based on these concepts are the assessment **Screening**.

Kindergarten	Grade 1	Grade 2	Grade 3	Grade 4
Properties of Objects	Classify Objects	Properties	Matter	Matter
Forms of Energy	Forms of Energy	Heating & Cooling	Heating & Cooling	Energy
Rocks	Soil	Energy	Energy	Soil
Objects in the Sky	Weather	Rocks	Position and Motion	Resources and Conservation
Organisms	Objects in the Sky	Objects in the Sky	Soil	Weather
Parts of Plants and Animals	Organisms	Organisms	Earth's Surface	Water Cycle
	External Characteristics	Physical Characteristics	Sun	Day & Night
	Life Cycles		Solar System	Food Webs
			Ecosystems	Survival of Organisms
			Survival of Plants and Animals	
			Life Cycles	
Grade 5	Grade 6	Grade 7	Grade 8	Biology
Matter	Elements	Sun	Atoms	Cellular Process
Energy	Metals, Nonmetals & Metalloids	Energy Flow	Protons & Electrons	Cell Structure
Circuits	Density	Physical & Chemical Changes	Periodic Table	Cell Cycle
Reflection & Refraction	Energy	Energy Transfer	Chemical Formulas	DNA Components
Rocks	Average Speed	Catastrophic Events	Chemical Reactions	DNA Changes
Landforms	Energy Transfer	Solar System	Unbalanced Forces	Genetic Combinations
Earth and Sun	Energy Transformations	Environments	Newton's Laws	Ancestry
Organisms	Rocks	Survival of the Species	Sun	Diversity of the Species
Food Webs	Solar System	Structure of Organisms	Lunar Cycle	Classification
Survival of Animals	Organisms	Cell Structure and Function	Solar System	Biomolecules
Inherited & Learned Traits		Reproduction	Plate Tectonics	Interaction of Animal Systems
			Weathering	Interaction of Plant Systems
			Survival of Organisms	Ecological Succession
			Environmental Change	Relationships of Organisms
				Flow of Matter and Energy
				Environmental Change