



Mad Science[®]
Correlations with
**Texas Assessment of
Knowledge and Skills
For Elementary Science
Grade 5**

Adopted in August 2004

Objective 1: The student will demonstrate an understanding of the nature of science.

- **Scientific processes.** The student conducts field and laboratory investigations following home and school safety procedures and environmentally appropriate and ethical practices.
 - ALL MAD SCIENCE PROGRAMS MEET THESE REQUIREMENTS
- **Scientific processes.** The student uses scientific inquiry methods during field and laboratory investigations.
 - ALL MAD SCIENCE PROGRAMS MEET THESE REQUIREMENTS
- **Scientific processes.** The student uses critical thinking and scientific problem solving to make informed decisions.
 - ALL MAD SCIENCE PROGRAMS MEET THESE REQUIREMENTS
- **Scientific processes.** The student knows how to use a variety of tools and methods to conduct science inquiry.
 - ALL MAD SCIENCE PROGRAMS MEET THESE REQUIREMENTS

Objective 2: The student will demonstrate an understanding of the life sciences.

- **Science concepts.** The student knows that living organisms have basic needs.
 - “BUGS” ASP
 - “ALL ABOUT ANIMALS” ASP
 - “LIFE IN THE SEA” ASP
 - “ECOSYSTEM EXPLORATIONS” WS
- **Science concepts.** The student knows that living organisms need food, water, light, air, a way to dispose of waste, and an environment in which to live.
 - “ALL ABOUT ANIMALS” ASP
 - “LIFE IN THE SEA” ASP
 - “ECOSYSTEM EXPLORATIONS” WS
- **Science concepts.** The student knows that change can create recognizable patterns.
 - “WALLOPING WEATHER” ASP
- **Science concepts.** The student knows that a system is a collection of cycles, structures, and processes that interact.
 - “PHOTOSYNTHESIS” WS
- **Science concepts.** The student knows that some change occurs in cycles.
 - “ALL ABOUT ANIMALS” ASP
 - “BUGS” ASP
 - “PHOTOSYNTHESIS” WS
- **Science concepts.** The student knows that adaptations may increase the survival of members of a species.
 - “ECOSYSTEM EXPLORATIONS” WS
- **Science concepts.** The student knows that likenesses between offspring and parents can be inherited or learned.
 - “ALL ABOUT ANIMALS” ASP
 - “PHOTOSYNTHESIS” WS

Objective 3: The student will demonstrate an understanding of the physical sciences.

- **Science concepts.** The student knows that forces cause change.
 - “FUN-DAMENTAL FORCES” ASP
 - “MAD SCIENCE MACHINES” ASP

- **Science concepts.** The student knows that change can create recognizable patterns.
 - “WALLOPING WEATHER” ASP
 - “SUN AND STARS” ASP
 - “BUGS” ASP

- **Science concepts.** The student knows that a system is a collection of cycles, structures, and processes that interact.
 - “PHOTOSYNTHESIS” WS

- **Science concepts.** The student knows that matter has physical properties.
 - “CRAZY CHEMWORKS-ALL” ASP
 - “KITCHEN CHEMISTRY” ASP
 - “MAGNETIC MAGIC” ASP
 - “CHE-MYSTERY” ASP
 - “MISCHIEVOUS MAGNETS” WS
 - “ELECTRICITY” WS
 - “PLAYING WITH POLYMERS” WS
 - “MATTER OF FACT” WS

- **Science concepts.** The student knows that energy occurs in many forms.
 - “HARNESSING HEAT” ASP
 - “ENERGY BURST” ASP
 - “SONIC SOUNDS” ASP
 - “MAGNETIC MAGIC” ASP
 - “ELECTRICITY” WS
 - “MISCHIEVOUS MAGNETS” WS
 - “GOOD VIBRATIONS” WS

Objective 4: The student will demonstrate an understanding of the earth sciences.

- **Science concepts.** The student knows that forces cause change.
 - “FUN-DAMENTAL FORCES” ASP
 - “EARTHWORKS” ASP
 - “MINERAL MANIA” WS

- **Science concepts.** The student knows that change can create recognizable patterns.
 - “WALLOPING WEATHER” ASP
 - “PLANET AND MOONS” ASP
 - “ATMOSPHERE AND BEYOND” ASP
 - “LIVING IN SPACE” ASP

- **Science concepts.** The student knows that a system is a collection of cycles, structures, and processes that interact.
 - “SUN AND STARS” ASP
 - “PLANETS AND MOONS” ASP
 - “EARTHWORKS” ASP
 - “ECOSYSTEM EXPLORATIONS” WS

- **Science concepts.** The student knows that some change occurs in cycles.
 - “PLANETS AND MOONS” ASP
 - “ATMOSPHERE AND BEYOND” ASP
 - “SUN AND STARS” ASP
 - “ECOSYSTEM EXPLORATIONS” WS
 - “PHOTOSYNTHESIS” WS

- **Science concepts.** The student knows that certain past events affect present and future events.
 - “EARTHWORKS” ASP
 - “MINERAL MANIA” WS

- **Science concepts.** The student knows that the natural world includes earth materials and objects in the sky.
 - “NASA AFSE – ALL” ASP
 - “EARTHWORKS” ASP
 - “ECOSYSTEM EXPLORATIONS” WS
 - “BLACK AND BLUE OCEANS” WS
 - “MINERAL MANIA” WS