



Zula Exploration Mission Modules **Alignment with National Science Education Standards for Grades K-4**

Legend

SM = Simple Machines Exploration Mission Module

MSCR = Mixtures, Solutions, and Chemical Reactions Exploration Mission Module

FR = Force Exploration Mission Module

HB = Habitats Exploration Mission Module

MA = Matter Exploration Mission Module

LT = Light Exploration Mission Module

H₂O = Water Exploration Mission Module

PALC = Plants, Animals, and Life Cycles Mission Module

WE = Weather

RS = Rocks and Soil

ALL = All current and future Zula activities and lesson plans

FK = Future Mission Exploration Modules

Science as Inquiry

- Abilities necessary to do scientific inquiry (ALL)
- Understandings about scientific inquiry (ALL)

Physical Science

- Properties of objects and materials (SM, MA, MSCR, FR, H₂O, RS, FK)
- Position and motion of objects (SM, FR)
- Light, heat, electricity, and magnetism (LT, FK)

Life Science

- The characteristics of organisms (PALC, HB, FK)
- Life cycles of organisms (PALC, FK)
- Organisms and Environments (PALC, HB, FK)

Earth and Space Science

- Properties of Earth materials (RS, FK)
- Objects in the sky (WE, FK)
- Changes in Earth and sky (WE, FK)

Science and Technology

- Abilities of technological design (FK)
- Understanding about science and technology (FK)
- Abilities to distinguish between natural objects and objects made by humans (FK)

Science in Personal and Social Perspectives

- Personal Health (FK)
- Characteristics and changes in populations (FK)
- Types of resources (FK)
- Changes in environments (HB, FK)
- Science and technology in local challenges (HB, FK)

History and Nature of Science

- Science as a human endeavor (FK)