

Air Zoo Education Programs: Controlling Aircraft in Flight

Grades 6-8

CONSTRUCT NEW SCIENTIFIC AND PERSONAL KNOWLEDGE

SCI.I.1.M.1 – Generate scientific questions about the world based on observation.

SCI.I.1.M.2 – Design and conduct simple investigations.

SCI.I.1.M.3 – Investigate toys/simple appliances and explain how they work, using instructions and appropriate safety precautions.

SCI.I.1.M.5 – Use sources of information to help solve problems.

REFLECT ON THE NATURE, ADEQUACY AND CONNECTIONS ACROSS SCIENTIFIC KNOWLEDGE

SCI.II.1.M.1 – Evaluate the strengths and weaknesses of claims, arguments, or data.

SCI.II.1.M.3 – Show how common themes of science, mathematics, and technology apply in real-world contexts.

USE SCIENTIFIC KNOWLEDGE FROM THE *PHYSICAL SCIENCES* IN REAL-WORLD CONTEXTS

SCI.IV.1.M.1 – Measure physical properties of objects or substances.

SCI.IV.1.M.2 – Describe when length, mass, weight, area, or volume are appropriate to describe the size of an object or the amount of a substance.

SCI.IV.2.M.1 – Describe common physical changes in materials: evaporation, condensation, thermal expansion, and contraction.

SCI.IV.2.M.5 – Explain physical changes in terms of the arrangement and motion of atoms and molecules.

SCI.IV.3.M.1 – Qualitatively describe and compare motions in three dimensions.

SCI.IV.3.M.2 – Relate changes in speed or direction to unbalanced forces in two dimensions.

SCI.IV.3.M.3 – Describe the forces exerted by magnets, electrically charged objects, and gravity.

SCI.IV.3.M.4 – Design strategies for moving objects by application of forces, including the use of simple machines.

USE SCIENTIFIC KNOWLEDGE FROM THE EARTH AND SPACE SCIENCES IN REAL-WORLD CONTEXTS

SCI.V.3.M.1 – Describe the composition and characteristics of the atmosphere.