

## **Museumlink Forest Module**

### **Illinois Goals and Standards addressed**

**Science** (Forest Layers and Herbarium Activities)

**Goal 12:** Understand the fundamental concepts, principles, and interconnections of the life, physical, and earth/space sciences.

**Standard A:** Know and apply concepts that explain how living things function, adapt, and change.

**Early Elementary: 12.A.1b:** Categorize living organisms using a variety of observable features.

**Middle/Junior High: 12.A.3c:** Compare and contrast how different forms and structures reflect different functions.

**Standard B:** Know and apply concepts that describe how living things interact with one another and with their environment.

**Early Elementary: 12.B.1a:** Describe and compare characteristics of living things in relationship to their environments.

**12.B.1b:** Describe how living things depend on one another for survival.

**Late Elementary: 12.B.2a:** Describe relationships among various organisms in their environments.

**Middle/Junior High: 12.B.3a:** Identify and classify biotic and abiotic factors in an environment that affect population density, habitat, and placement of organisms in an energy pyramid.

**Early High School: 12.B.4b:** Simulate and analyze factors that influence the size and stability of populations within ecosystems.

**Late High school: 12.B.5b:** Compare and predict how life forms can adapt to changes in the environment by applying concepts of change and constancy.

**Goal 13:** Understand the relationships among science, technology, and society in historical and contemporary contexts.

**Standard B:** Know and apply concepts that describe the interaction between science, technology, and society.

**Middle/Junior High: 13.B.3d:** Analyze the interaction of resource acquisition, technological development, and ecosystem impact.

**Mathematics** (Interpreting a Graph Activity)

**Goal 8:** Use algebraic and analytical methods to identify and describe patterns and relationships in data, solve problems, and predict results.

**Standard B:** Interpret and describe numerical relationships using tables, graphs, and symbols.

**Middle School/Junior High Standard 8B:** - Interpret and describe numerical relationships using tables, graphs, and symbols.

**Early High School Standard 10.A.3a:** construct, read and interpret tables, graphs, and charts to organize and represent data.

**English Language Arts** (Forest as Inspiration for Literature)

**Goal 2:** Read and understand literature representative of various societies, eras, and ideas.

**Standard A:** Understand how literary elements and techniques are used to convey meaning.

**Late Elementary: 2.A.2b:** Describe how story elements are used in literature to create meaning.

**Middle/Junior High: 2.A.3b:** Describe how the development of theme, character, plot, and setting contribute to the overall impact of a piece of literature.

**Early High: 2.A.4a:** Analyze and evaluate the effective use of literary techniques (figurative language, allusion, dialogue, description, symbolism, word choice, dialect) in classic and contemporary literature.

**Late High: 2.A.5d:** Evaluate the influence of historical context on form, style, and point of view for a variety of literary works.

**Standard B:** Read and interpret a variety of literary works.

**Early Elementary: 2.B.1b:** Identify common themes in literature from a variety of eras.

**Late Elementary: 2.B.2b:** Identify and explain themes that have been explored in literature for different societies and eras.

**Middle/Junior High: 2.B.3b:** Compare and contrast common literary themes across various societies and eras.

**Early High School: 2.B.4b:** Analyze form, content, purpose, and major themes of American literature and literature of other countries in their historical perspectives.

**Late High School: 2.B.5b:** Apply knowledge gained from literature as means of understanding contemporary and historical economic, social, and political issues and perspectives.

**Visual Arts** (Forest Layers Activity)

**Goal 27.B:** Understand how the arts shape and reflect history, society, and everyday life.

**Early Elementary: 27.B.1:** Know how images...convey stories about people, places, and times.

**Late Elementary: 27.B.2:** Identify and describe how the arts communicate the similarities and differences among various people, places, and times.