

# Unit Study Documentation

*learning objectives · scope & sequence · required materials — for family records & ESA documentation*

## The Amazon Rainforest — A Family Unit Study

### SUBJECTS

Science (rainforest ecosystems & layers, geology), Geography & Map Skills, Cultural Studies (indigenous Amazonian seed art), Art, Language Arts (riddles & presentations), Practical Life (cooking)

### LEARNING OBJECTIVES — the student will:

- Identify the four layers of the rainforest and describe why the Amazon matters to global climate.
- Read a map, follow directional clues, and decode written riddles in a team.
- Create seed-mosaic art in the indigenous Amazonian tradition and explain its origin.
- Observe crystal formation firsthand through geode examination.
- Prepare and share a themed meal, practicing measuring and kitchen safety.

### SCOPE & SEQUENCE

Boarding & orientation → documentary study (50 min) → comprehension trivia → seed-mosaic art (30 min + drying) → treasure hunt with map & riddles → geode geology (25 min) → cultural feast preparation → reflective closing film. Total instructional time ≈ 4 hours.

### REQUIRED SUPPLEMENTAL MATERIALS

Air-dry clay; dried bean assortment; wooden chest & map materials; break-open geodes; documentary access (free); feast groceries.

## The African Savanna — A Family Unit Study

### SUBJECTS

Geography (countries & biomes of Africa), Science (savanna wildlife), Music (rhythm & ensemble), Visual Art (stencil & color technique), Cultural Studies (Ethiopian food customs)

### LEARNING OBJECTIVES — the student will:

- Locate Africa's major regions and name characteristic savanna wildlife.
- Apply color-blending and stencil technique to compose a sunset landscape.
- Perform call-and-response rhythms and keep a shared ensemble beat.
- Describe Ethiopian dining customs and participate in a traditional-style shared meal.

### SCOPE & SEQUENCE

Boarding & orientation → guided continent tour film → comprehension trivia → stencil-art studio (40 min) → rhythm & drum circle (20 min) → Ethiopian feast preparation & shared meal → reflective closing film. Total instructional time ≈ 4 hours.

### REQUIRED SUPPLEMENTAL MATERIALS

Canvas panels; animal & pattern stencils; acrylic paints, sponges & tape; household percussion (no cost); feast groceries.

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## Asia by Lantern-Light — A Family Unit Study

### SUBJECTS

Geography (Asia's scale & nations), World Languages (Chinese characters, pinyin), Fine Motor & Visual Art (brush calligraphy, origami geometry), Cultural Studies & Practical Life (Japanese cuisine)

### LEARNING OBJECTIVES — the student will:

- Explain how character-based writing differs from alphabets and paint one's name in Chinese characters.
- Demonstrate brush control, stroke order, and careful pencil-to-brush drafting.
- Fold origami models following diagrammed instructions, building spatial reasoning and patience.
- Prepare sushi rice and assemble rolls, practicing sequencing and food-culture appreciation.
- Complete a written comprehension quiz on the continent's geography and cultures.

### SCOPE & SEQUENCE

Boarding & orientation → continent mini-documentary → Station 1: origami (40 min) → Station 2: brush calligraphy with printable character charts (40 min) → Station 3: sushi preparation (55 min) → themed lunch & written quiz → reflective closing film. Total instructional time ≈ 4½ hours.

### REQUIRED SUPPLEMENTAL MATERIALS

Origami paper kit with instruction book; bamboo sushi kit; black paint & round brushes; printable character charts, name cards & quiz (included); groceries.

## The European Grand Tour — A Family Unit Study

### SUBJECTS

Geography (countries, landmarks, the Alps), History & Food Culture (origin of pizza, Naples), Science (yeast & fermentation), Language Arts (letter writing), Visual Art (observational drawing & tracing)

### LEARNING OBJECTIVES — the student will:

- Identify major European countries, landmarks, and geographic features on a map.
- Compose and address a written postcard including one researched fact.
- Practice observational drawing through landmark tracing (Eiffel Tower, Leaning Tower of Pisa).
- Observe yeast fermentation and prepare bread dough from scratch, then assemble and bake a personal pizza.
- Complete a written comprehension quiz and a themed word search; color and label a map of Europe.

### SCOPE & SEQUENCE

Boarding via simulated flight → continent documentary → written quiz → map coloring & labeling → postcard studio with landmark tracing (45-55 min) → from-scratch pizza kitchen with fermentation observation → food-history film during bake → shared meal. Total instructional time ≈ 4 hours.

### REQUIRED SUPPLEMENTAL MATERIALS

Cardstock, pencils, markers or watercolors; pantry baking staples & groceries; child chef apron & hat (optional); printable tracing sheets, map, word search & quiz (included).

### A NOTE FOR ARIZONA ESA FAMILIES

Each Adventure Kit is designed as a multi-subject family unit study with the objectives, scope & sequence, and materials list above. Keep this sheet with your records to support purchases of the kit and its supplemental materials. Final eligibility determinations always rest with the Arizona Department of Education — consult the current ESA Parent Handbook.