**Field Science Units Outline**

*\*\*\*\*\* Constellations - 2nd Semester \*\*\*\*\**

**I. Introduction To Field Science**

 1. Introduction / Class Rules / Grading

 2. Field Safety / Field Journals / Native Aquarium / Terrarium Project

 3. Project Timelines

 4. Natural Resources Management

 5. DNR Employment Opportunities

**II. Native Plant & Fungi Identification**

 1. Plant Identification

 2. Trees, Shrubs, & Herbaceous Plants

 3. Arachnid & Insect Classification

 4. Tagging / Catch & Release Program

 5. Fungi Identification

**III. Iowa Conservation**

 1. Iowa State Parks / Forests

 2. Permits & Licenses

 3. Recreational Activities (Camping, Hunting, Fishing, Canoeing)

 4. Threatened Species

 5. Invasive Species

**IV. Iowa Waterways**

 1. Iowa Waterways

 2. Fish Identification

 2. Iowa Watersheds

 3. Wastewater Treatment

**V. Native Wildlife Identification**

 1. Native Reptile / Amphibian Identification

 2. Native Bird Identification (Bird Calls / Bird Nests)

 3. Native Mammal Identification

 4. Animals Tracks / Scat

 5. Taxidermy

**VI. Iowa Energy & Pollution**

 1. Alternative Energy Resources

 2. Air Quality

 3. Water Quality

 4. Land Quality

**VII. Iowa Geology**

 1. Rock / Mineral / Fossil Identification

 2. Soil Types & Testing

 3. Erosion (Floodplain Control) - Wind, Water, Ice, Glaciers

 4. Cave Geology