**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