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| **Migration Case Study Poster Rubric** | | | | | |
| Poster Title: | | | | | |
| Student Names: | | | | | |
| **Criteria (1=weak; 5=strong)** | **1** | **2** | **3** | **4** | **5** |
| **Core Ecological Concepts** | | | | | |
| Autoecology: describes the role of abiotic features in the ecosystem |  |  |  |  |  |
| Community: describes the behavioral ecology relevant to redhorse migration |  |  |  |  |  |
| Ecosystems: evaluates mechanisms of energy flow and relationship to productivity in the ecosystem |  |  |  |  |  |
| Ecosystems: analyzes nutrient cycling and subsidies from migration processes |  |  |  |  |  |
| Landscapes: reports concepts and findings in the context of watersheds |  |  |  |  |  |
| Biosphere: incorporates global climate change into the analysis of migration and nutrient cycling |  |  |  |  |  |
| **Ecological Practices** | | | | | |
| Quantitative Reasoning: Incorporates results of statistical analysis and graphs into the poster |  |  |  |  |  |
| Quantitative Reasoning: Communicates relevance of data analysis from Lesson 3 and finds ecological relevance in results |  |  |  |  |  |
| **Human-Environment Interactions** | | | | | |
| Human-accelerated environment change: Incorporates land use practices that may disturb/interrupt ecosystem structure and function and migratory processes |  |  |  |  |  |
| How humans manage resources: Describes relevant conservation actions based upon case study |  |  |  |  |  |
| **Cross-cutting Themes** | | | | | |
| Pathways and Transformation of Energy – describe the pathways of energy and nutrients through the stream ecosystem |  |  |  |  |  |
| Spatial and Temporal – considers ecological processes in the case study over time and space |  |  |  |  |  |
| Systems – analyzes how the system works by connecting migration, energy, nutrients, climate change, and human interactions |  |  |  |  |  |
| **Poster Design and Appearance** | | | | | |
| Appearance is professional, organized, and visually appealing |  |  |  |  |  |
| Includes sources of information |  |  |  |  |  |
| **GRAND TOTAL** | | | | **/ 75** | |

Provide comments below: