March Mammal Madness
Grade Band Elementary

Life Science	Grade	Next Generation Science Standards
1-LS1-1	1	Use materials to design a solution to a human problem by mimicking how plants or animals use their external parts to survive, grow, and meet their needs.
2-LS4-1	2	Make observations of plants and animals to compare the diversity of life in different habitats.
3-LS3-1	3	Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of traits exists in a group.
3-LS4-2	3	Use evidence to construct an explanation for how structural traits support survival.
4-LS1-1	4	Construct an argument that plants and animals have internal and external structures that support survival, growth, behavior, and reproduction.
5-LS2-1	5	Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.
Engineering Design		
3-5-ETS1-1	3-5	Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
3-5-ETS1-2	3-5	Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints.
3-5-ETS1-3	3-5	Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.

Reading	English Language Arts (Reading & Writing)
RI.1.1. to RI.5.1.	Ask and answer questions about key details in a science text.

RI.2.3 to RI.5.3	Describe the connection between scientific ideas or steps in a process.
RI.3.4 to RI.5.4	Determine meaning of domain-specific vocabulary (e.g., mammal, predator, habitat,adaptation, locomotion).
Writing	
W.2.2 to W.5.2	Write informative texts to explain a topic and support with facts and details.
W.3.1 to W.5.1	Write opinion pieces with reasons supported by facts and details (e.g., why your mammal's traits improves survival).
W.3.6 to W.5.6	Use digital tools to produce and publish writing.
W.3.7 to W.5.7	Conduct short research projects to build knowledge.
Measurement and Data	**Mathematics**
1.MD.4 to 5.MD.2	Collect, represent, and interpret data on line plots, bar graphs, or tables.
4.MD.5-6	Understand and measure lengths and angles (e.g., helpful for mouth/claw.limb/tail movement).
5.MD.5	Apply volume concepts if 3D modeling is involved.
Mathematical Practice Standards	**Modeling & Problem Solving**
MP2	Reason abstractly and quantitatively.
MP4	Model with mathematics.
MP5	Use appropriate tools (e.g., sensors, measurement tools, graphing tools).
Computer Science	**Missouri K-5 Draft Standards**
DA.K-5.1	Collect and represent data in various ways.
AP.K-5.2	Develop programs with sequences and simple loops to solve problems.
AP.K-5.4	Test and refine programs based on feedback or performance.
IC.K-5.1	Explain how technology can replicate animal behaviors or solve environmental challenges.

Made by: L. Holt-Hovis
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