



## xSTREAM CENTER PLAN - timeline and lesson plans for each week

Name of Teacher: Laura Kelley and Holly Geutzloff	Grade Level: 1
Subject Areas: Religion, Science, Social Studies, ELA, Math	
Unit Title: Humans and Other Mammals	Estimated Duration of Unit: 9 weeks
xSTREAM Center Concept Area: Z Space Experience; Studio; Leopoldy	
Overview of Unit: Review and practice use of stylus using ZSpace Experience; Characteristics of Mammals; Idea Sheet: Mammals	
Resources (non fiction/fiction): Classroom and library mammal books/bat books, national geographic online videos	Teaching Strategies: Hands-on learning using xSTREAM technology tools, classroom lecture, books on bats and other mammals, small group activities
Catholic Identity Connections: 1.1.4 God is creator of all (CCC 238) 1.III.5 God wants us to take care of the world (SBG).	
Assessment (authentic/published - summative/formative): Bat Report Chart - Children provide 3 bat facts written in complete sentences. One on each bat displayed on chart and present to the class.	

### Standards Addressed

Subject Area	Standard Number	Standard Description
Science, Technology	21C.S.PK-2.1 Standard 1: Information and Communication Skills	The student will access, analyze, manage, integrate, evaluate, and create information in a variety of forms using appropriate technology skills and communicate that information in an appropriate oral, written, or multimedia format.
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Science, Technology	21C.O.PK-2.1.TT.4	Student uses electronic drawing and paint programs to create graphics. Student participates in a group to locate and create pictures, clip art, graphs, tables and other appropriate objects and to insert into documents and presentations.
Science, Technology	21C.O.PK-2.1.TT.7	Student, working in a teacher-led whole group project, uses presentation software to illustrate concepts and communicate ideas.
Technology	21C.O.PK-2.3.TT.1	Students identify and practice the responsible use of technology systems and software.
Science	SC.O.1.3.02	Students will use models as representations of real things.
Science	SC.O.1.1.04	Students will use scientific instruments and everyday materials to investigate the natural world.
Math	M.1.MD.2	Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end and understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps. Estimate and compare using centimeters and inches.
Language Arts	ELA.1.W.C15.2	Demonstrate command of the conventions of Standard English capitalization, punctuation, and spelling when writing
Language Arts	ELA.RL.1.1	Ask and answer questions about key details in a text.
Language Arts	ELA.RI.1.3	Describe the connection between two individuals, events, ideas, or pieces of information in a text.



x	Distance Learning
x	Powerpoint, Elmo etc.
	Other:
<b>Writing</b>	
	Paragraph
	Essay (narratives, fairy tales, realistic fiction)
	Summary
x	Research
	Detailed answers (text supported)
	Notes (note taking skills, outlines)
x	Complete sentences
	Other:
<b>Reading</b>	
x	Informational text
	Lexile
	Complex literature
x	Speaking
x	Listening
x	Varied strategies and instructional methods
x	Critical thinking in whole class discussion
x	Student led activities
	Literature Circles
	Other:
<b>Teaching Strategies</b>	
	Collaborative
	Using technology, teacher lectures, both fiction and nonfiction literature, virtual field trip
	Other:
<b>Differentiated Instruction</b>	
x	Used multiple resources
x	Domain Vocabulary
x	Cross-Curricular
x	Collaborative engagement (meaningful feedback)
x	Higher level learning and teaching
	Other:
<b>Assessment</b>	
x	Project based
x	Writing prompt
	Portfolio
x	Observation
	Quiz
	Technology based
	Test
	Student created test
x	Presentation
x	Journal
	Think, pair, share
	Summary
x	Oral questioning
	Analogy

	Powerpoint, or movie maker
x	Other:
<b>Authenticity</b>	
x	Various activities
x	Inquiry, research and evidence
x	Evidence of time management and planning
	Problem solving strategies
	Other:
<b>ly</b>	
<p>In this first nine weeks of school unit, the first grade children will practice using stylus, complete activity cards 1-7 in Studio: "You Made What?" Children will then continue with Studio:Mammals to go along with classroom science lessons on human development and study of other mammals including the characteristics of all mammals. This will lead into comparing two different mammals Bats and Whales using the Activity Sheet: Mammals in Studio. Children will make further comparisons with different mammals and create a new mammal using this technology. The unit will conclude with virtual field trip to Yellowstone National Park and in-depth mammal study of bats with children creating a Bat Fact Chart and presenting it to the class. Presentations will be recorded and given a QR code to share presentation with family and friends. Children will take a STAR reading to compare beginning and end of quarter growth.</p>	





**Who:** Holly Guetzloff and Laura Kelley, first grade teachers

**What:** Integrating technology with all subject areas

**When:** Daily in classroom with laptops and ipads; weekly class in xSTTREAM Center

### **Assessment** - How engaged were the students in this project?

Students absolutely love their time in the xSTTREAM center. They enjoy working/using the stylus and 3D glasses, exploring the various activities, and completing the given assignments. Their curiosity about the subject content of mammals as well as the technology kept them interested and the time spent greatly improved their skill level and knowledge/ability to use the technology.

Children also enjoy daily use of classroom ipads. The apps used have helped reinforce concepts being taught in math and language arts.

### **Reflection**

Technology in the classroom and xSTTREAM Center has had a positive impact on children's skill levels both academically and with technology. They have become more proficient and independent in using technology to learn and practice first grade concepts in learning about mammals.

### **Summary**

Overall, the students have benefited greatly from the increase in technology use this past year with the addition of the xSTTREAM Center to go along with our classroom ipads and computers. As educators, it has given us the opportunity to grow as well. We have learned new ways of sharing information with our students by incorporating virtual field trips and the zSpace technology.

We prepared plans that reinforced animal/mammal concepts taught in our weekly reading stories and/or math lessons. Whole group lessons included the subject areas of language arts, science, social studies, math, technology in our school's xSTTREAM center as well as our own classrooms.

Also, the apps we have added to our program ---IXL (math and language arts/grammar), Big Brains (math facts), SmartyAnts (language arts/reading) on ipads and laptops--- provide self-paced, individualized learning opportunities for the children in our classes.



# xSTREAM Center – zSpace & macbooks



## Classroom – IXL, SmartyAnts, Imagine Math & AR

