

Understanding by Design Lesson Plan: Scientific Inquiry of Ravens

Teacher: Katy Guinotte

Grade level: 3rd

Date: n/a

Subject: Science

Stage 1 – Desired Results	
<p>Established Goals/Content Standards:</p> <ul style="list-style-type: none"> A student should understand and be able to apply the processes and applications of scientific inquiry. <p>A student who meets the content standard should:</p> <p>1) develop an understanding of the processes of science used to investigate problems, design and conduct repeatable scientific investigations, and defend scientific arguments;</p>	
<p>Understandings: Students will understand...</p> <ul style="list-style-type: none"> How ravens will interact with each other. How scientific observations and recording takes place. 	<p>Essential Questions:</p> <ul style="list-style-type: none"> Are animal interactions similar to human interactions? What is essential when performing scientific observations/recording?
<p>Student objectives (outcomes): Students will know...</p> <ul style="list-style-type: none"> How ravens interact as a flock. 	<p>Student objectives (outcomes): Students will be able to...</p> <ul style="list-style-type: none"> Describe their observations of the ravens
Stage 2 – Assessment Evidence	
<p>Performance Tasks:</p> <ul style="list-style-type: none"> Write a short story about the raven interactions that were witnessed. Draw a cartoon strip of the raven interactions. Do a short skit of the raven interactions. 	<p>Other Evidence:</p> <ul style="list-style-type: none"> Present writing, cartoon, or skit to the class.
<p>Self-Assessments</p> <ul style="list-style-type: none"> Guided class discussion after writing, drawing, or skit presentations. Class discussions leads into self and peer assessments about what could be done better. 	<p>Other Evidence, Summarized</p> <ul style="list-style-type: none">
Stage 3 – Learning Plan	
<p>Learning Activities:</p> <ul style="list-style-type: none"> Preparation: Put food out to attract the local raven group. Make sure the food is far enough away from the school building that students who are observing don't scare away the ravens. Go outside in small groups with clipboards and papers and have the students record their observations of the ravens. Allow students to choose one of three activities <ul style="list-style-type: none"> Write a short story about the raven interactions that were just observed. 	

- Draw a cartoon strip showing the raven interactions that were just observed.
- Do a short skit with a few other students of the raven interactions that were just observed.
- Give them time to work on these tasks.
- Come together as a class at the end and allow the students to present their writing, drawing, and acting to the class.
- Allow class discussion at the end of each presentation to promote self-assessment and peer assessment.

Materials: clipboard, paper, empty cartoon strips