

Date: March 2, 2018

To: Black-Footed Ferret Recovery Team (BFFRT)

From: Edward Alonso, US Fish and Wildlife Service

Subject: Fort Collins Project

Progress on the reintroduction of the ferret into natural habitats is not moving quickly enough. Already there is media coverage suggesting that attempts to save the ferret are too expensive and too labor-intensive, given our success so far. Just look at this week's paper, and you'll see what I mean- the project was buried on page 4! Given the current strains on the economy, we need to make sure our efforts show clear results. Clearly something must change, and that is why you have been brought together as a team. In the past, we have been reactive- that is, we have responded to different problems as they have cropped up. But I think it is important that we become proactive by anticipating potential problems and creating a model of a feasible, functioning habitat that's suitable for the ferret and all other inhabitants.

We will use Fort Collins, Colorado, as the test site to develop our model habitat. Your job is to identify the different aspects of successful ferret reintroduction, paying particular attention to the following questions:

- 1. How suitable is the natural habitat for ferret preservation? What, if anything, needs to change before we begin reintroduction?*
- 2. What needs to happen to the Fort Collins habitat to account for the unique fragility of the recovered ferrets?*
- 3. What is the nature of the human climate with regards to the ferret? Identify any necessary changes in that area, and provide ideas on how the changes can be made.*

These questions should be enough at least to get you started, but remember, this is our first attempt at a model, so you may encounter other important factors along the way. Keep track of these, and incorporate them into your model as appropriate. You will be presenting the model and findings to members of the BFFRT Project Oversight Committee on March 31, 2017. I realize that this is a complex task, but I am confident that, given the nature and diversity of the membership of this group, you will be successful.

Problem-Based Learning Scenario Plan

1. Briefly identify content and topic focus?

2. Identify curriculum area(s) (subject, standard).

3. What are the possible stakeholder roles? Identify one or several roles that might support the curriculum and content areas?

a scenario that identifies an ill-structured problem, the student stakeholder role, deadline, with an emotional appeal.

Write a kicker you could use with one of our problem definitions:

LESSON PLAN

PHASE: PROBLEM INTRODUCTION - PROBLEM DEFINITION – RESEARCH AND INQUIRY – DETERMINING SOLUTION – DEBRIEF

ESTIMATED TIME: 2 SESSIONS

Class Activities	Ideas and Questions to be Addressed	Materials and Resources to Prepare	Problem Log / Assessment
Session 1			
Session 2			

--	--	--	--

COACHING PLAN

PHASE: PROBLEM INTRODUCTION - PROBLEM DEFINITION – RESEARCH AND INQUIRY – DETERMINING SOLUTION – DEBRIEF

ESTIMATED TIME:

CLASS ACTIVITIES	IDEAS AND QUESTIONS ADDRESSED	MATERIALS AND RESOURCES TO PREPARE	PROBLEM LOG/ ASSESSMENT

Total				
--------------	--	--	--	--

LEARNING ISSUES BOARD

HUNCHES:

WHAT WE KNOW	LEARNING ISSUES	PLAN OF ACTION

--	--	--

Resources

Problem-Based Learning Resources Sample Lesson Plans

<http://pblresource.weebly.com/sample-lesson-plans.html> This is a resource page that gives you links to other sites with lessons and information on PBL.

Problem-Based Learning Resources, Department of Education West Virginia

<http://wveis.k12.wv.us/teach21/public/project/MainMenu.cfm?tsele1=1> This site allows you to select subject and grade level

Project-Based Learning, Edutopia

https://www.edutopia.org/project-based-learning?gclid=CLPKI_KAttICFQx_fgode_UPgg

Project-Based Learning, Teaching Channel

<https://www.teachingchannel.org/videos?q=ProjectBasedLearning>

Future Problem Solving International

http://fspimart.org/index.php?main_page=index&cPath=45&zenid=afd892848a481926057bdd8a21473e51

http://fspimart.org/index.php?main_page=index&cPath=7

Royal Fireworks Press

<https://www.rfwp.com/>

Books

Gallagher, S.A. (2012). *Problem-based learning in your classroom*. Royal Fireworks Press: NY.

Hallerman, S., Larmer, J. (2016). *PBL in the elementary grades*. Buck Institute for Education: CA.