

EnSci 8.1

Plan:

Research an invasive species to discover the role and disruption it has in their new ecosystem

**Invasive species research and presentation: Due Sep 30th**

Purpose: To take a detailed look at a non-native species of plant or animal in North America and analyze how it affects the ecosystems it is taking over

Your presentation should include the following at a minimum. Other information that is specific to your organism can be included if applicable.

\*Note: you may not choose feral cats or dogs as your species

- Common name and scientific name of your organism
- What role does it have in the ecosystem? (carnivore, herbivore, producer, parasite, etc.)
- Adaptations that make help it survive...what makes it take over the area?
- How it is affecting its new ecosystem...what other organisms are affected by its presence and to what degree?
- Any solutions to either eliminate the organism or reduce the population? Any proposals you can come up with?
  
- At least three pictures relating to your organism in the presentation
  
- A list of at least three links you used as resources (Wikipedia can be one of them, but not your only resource)
  
- A sketch of your organism or a cartoon or comic strip depicting your organism (can be done with digital art or on physical media, each person submitting their own artwork)
  
- At least 7 slides (can include title and resources)

Note of plagiarism:

- If you find a quote you want to use, you must credit the quote and not pass it off as your own work.
- At least 90% of the text must be put in your own words

- Listing something about the organism might be the same as the website (you can't plagiarize a scientific name), but your descriptions and sentences cannot be copy-pasted
- Any instances of plagiarism will result in a zero.

## **Rubric: (Multiply each number by 5 for your final grade out of 100)**

### **Includes all information requested**

- 5: Completely covered                      4: Missing one piece of information                      3: Missing 2-3 points  
 2: Missing 3-4 points                      1: Very few things covered, or completely inaccurate

### **Spelling and grammar**

- 5: 1 or no errors                      4: 2 or 3 errors                      3: 4 or more errors  
 2: Many errors but still comprehensible                      1: Incomprehensible

### **Style**

- 5: Eye-catching and interesting, but clear when looked at                      4: Not as interesting, but clear design  
 3: Either dull or a little hard to read and comprehend                      2: Bad design and layout  
 1: Cannot be understood without drastic changes

### **Presentation**

- 5: Everyone presenting with clear speaking. Can answer questions if asked  
 4: Everyone presenting with clear speaking.  
 3: Everyone presenting with some issues in clarity  
 2: Only one presenting or major issues in clarity  
 1: Unable to be understood

8.2

Plan:

Define different roles in a food web, how organisms interact with each other

## Ecosystems: Vocabulary and Food webs

1) Define the following:

**Producer:**

**Consumer:**

**Secondary Consumer:**

**Tertiary Consumer:**

2) Why do you think a consumer at a tenth level would not work?

3) Where would your invasive species fit in terms of the role in the ecosystem? Support this with information about your species and how it survives.

Sketch and label the following organisms and organize them in a food web

**Rabbit, Owl, Grass, Tree, Wolf, Mouse, Snake, Grasshopper, Flower, Butterfly, Spider, Deer, Berries, Bear**

- If unsure of what something consumes, make your best educated guess
- Many organisms consume more than one thing

8.3

Plan: Ecosystem webquest

Computer lab:

Use the following website to determine different aspects of an ecosystem, predict certain aspects of ecosystems and their services

[eschooltoday.com/science/ecosystems](http://eschooltoday.com/science/ecosystems)