

## LESSON FOURTEEN: INVASIVE SPECIES JEOPARDY

---

**Duration:** One 45-minute class period

---

**Objectives:**

To test students' knowledge of exotic invasive plant species taught in this unit.

---

**Prepare in advance:**

Practice using PowerPoint presentation before using in class

---

**Materials:**

- Computer and multimedia projector with Microsoft PowerPoint installed
- A copy PowerPoint Jeopardy game installed on computer.

---

**Instructional sequence:**

- **Remind** students of Jeopardy rules: *students supply a question for a statement (the answer) given to them.* For example, Answer – the number of days in one week; student would supply the question, “What is 7?”
- Operating Instructions (from first slide on PowerPoint Jeopardy):
  - Click anywhere on this screen to start the game.
  - Select a category value and click on it.
  - Click on the **ANSWER** button ***FIRST***.
  - **THIS IS VERY IMPORTANT!** Your first click **ANYWHERE** will reveal the answer (clue).
  - Click on **QUESTION TO REVEAL CORRECT STUDENT RESPONSE**.
  - Click on the **PINK HOUSE BUTTON** to return to the category screen.
  - To **END** the PowerPoint, double click on any area of the screen.

## OPERATING INSTRUCTIONS

Remember than in the game of jeopardy *students supply a question* for a statement (the answer) that the teacher gives them.

The teacher gives the answer and the student formulates a question for that answer.

E.g.: Answer – the number of days in one week

Student would supply the question, “What is 7?”

### PRACTICE USING THIS POWERPOINT BEFORE USING IT IN CLASS!

1. Click anywhere on this card to start the game.
2. Select a category value and click on it.
3. Click on the **ANSWER** button **FIRST**.
4. **THIS IS VERY IMPORTANT!** *Your first click **ANYWHERE** will reveal the answer (clue).*
5. Click on **QUESTION TO REVEAL CORRECT STUDENT RESPONSE**.
6. Click on the **PINK HOUSE BUTTON** to return to the category screen.
7. To END the PowerPoint, double click on any area of the screen.

Answer

Question



## Invasive Species Jeopardy

Healthy Ecosystems	Relationships	Appalachian Invaders	Successful Strategies	Empower Me!
<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>	<u>200</u>
<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>	<u>300</u>
<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>	<u>400</u>
<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>	<u>500</u>
<u>Final Jeopardy</u>				

## Healthy Ecosystems -100-

- **QUESTION:** “What is *the sun*?”  
» “What is *sunlight*?”
- **ANSWER:** the *energy source* on which everything in a healthy land or water ecosystem depends

[Answer](#)[Question](#)

## Healthy Ecosystems -200-

- **QUESTION:** What are *producers*, *consumers*, and *decomposers*?
- **ANSWER:** the kinds of living organisms in a healthy ecosystem (3)

[Answer](#)[Question](#)

## Healthy Ecosystems

-300-

- **QUESTION:** What are *land forms, water sources, soil, and rocks*?
- **ANSWER:** the non-living things in a healthy ecosystem (4)

Answer

Question



## Healthy Ecosystems

-400-

- **QUESTION:** What are *natural boundaries*?
- **ANSWER:** *physical limits* of a healthy ecosystem set by the living and non-living things in the ecosystem

Answer

Question



## Healthy Ecosystems -500-

- **QUESTION:** What is *biodiversity*?
- **ANSWER:** the number of *different species* in a particular habitat

[Answer](#)[Question](#)

## Relationships -100-

- **QUESTION:** What is a *producer*?
- **ANSWER:** a plant that can *change* the sun's radiant energy *into chemical energy*

[Answer](#)[Question](#)

## Relationships

-200-

- **QUESTION:** What are predators?  
» What is a predator?
- **ANSWER:** animals that hunt, kill and eat other animals

[Answer](#)[Question](#)

## Relationships

-300-

- **QUESTION:** What is a *habitat*?
- **ANSWER:** the place that provides food, shelter, and a suitable climate for an organism to live

[Answer](#)[Question](#)

## Relationships

-400-

- **QUESTION:** What is a *food chain*?
- **ANSWER:** a [model](#) that shows *only one-to-one links* between the levels of producers and consumers

[Answer](#)[Question](#)

third level consumer



secondary consumer



primary consumer



producer

hawk



owl



mouse



grass

[back](#)[Answer](#)[Question](#)

## Relationships

-500-

- **QUESTION:** What are *exotic invasive plants*?
- **ANSWER:** rapid growth rates and reproduction rates allow *them* to overpower and displace existing native plants by using up valuable light, space, water, and nutrients

[Answer](#)[Question](#)

## Appalachian Invaders

-100-

- **QUESTION:** What is *kudzu*?
- **ANSWER:** a fast-growing Asian vine from the *pea family*. Before 1953 it was often grown as *livestock forage* and to *stop erosion*.

[Answer](#)[Question](#)



## Appalachian Invaders

-200-

- **QUESTION:** What is *tree of heaven*?
- **ANSWER:** definitely *not* angelic! a tree most common along forest edges, often mistaken for *native sumac*

Answer

Question



## Appalachian Invaders

-300-

- **QUESTION:** What is *mimosa*?
- **ANSWER:** a small tree that re-sprouts quickly when cut, and seeds from *lacey pink flower* “puffs” may remain viable for 50 years or more

Answer

Question



## Appalachian Invaders

-400-

- **QUESTION:** What is *Japanese honeysuckle*?
- **ANSWER:** a vine with sweet-smelling flowers. Its evergreen *leaves photosynthesize in winter* and its dense branches strangle small trees and shrubs

Answer

Question



## Appalachian Invaders

!!!DOUBLE JEOPARDY!!!

- **QUESTION:** What is *oriental bittersweet*?
- **ANSWER:** a *not so tasty climbing vine* that reproduces often and grows so rapidly it damages or kills native plants by choking and shading them

Answer

Question



## Successful Strategies

-100-

- **QUESTION:** What is *adaptation*?  
» What is *adapt*?
- **ANSWER:** the *ability* of a species to survive in a particular habitat, especially because of *changes* of form or behavior

[Answer](#)[Question](#)

## Successful Strategies

-200-

- **QUESTION:** What is a *toxin*?
- **ANSWER:** the *deadly substance* given off by *roots* of some exotic invaders

[Answer](#)[Question](#)

## Successful Strategies

-300-

- **QUESTION:** What are *natural consumers*?
- **ANSWER:** Exotic invasive plants survive in new ecosystems because there are none of *these*.

[Answer](#)[Question](#)

## Successful Strategies

-400-

- **QUESTION:** What are *tap roots and adventitious roots*?
- **ANSWER:** broad-leafed invaders often have one of *these two kinds of roots* that are very difficult to completely remove

[Answer](#)[Question](#)

## Successful Strategies

### !!!DOUBLE JEOPARDY!!!

- **QUESTION:** What is  
*‘intentional habitat destruction’*?
- **ANSWER:** Second only to *this*, invasive exotic plants are the greatest threat to natural ecosystems of the United States.

[Answer](#)[Question](#)

## Empower Me!

### -100-

- **QUESTION:** What is *identify*  
an exotic invasive plant?
- **ANSWER:** By *knowing* some of these things about a plant:
  - location (habitat)
  - leaf shape
  - flowers and/or seeds
  - root type

*I can . . .*

[Answer](#)[Question](#)

## Empower Me!

-200-

- **QUESTION:**
  - What is *get advice from an expert*?
- **ANSWER:** If I am *unsure* about planting an imported plant in my garden, I can . . .

[Answer](#)[Question](#)

## Empower Me!

-300-

- **QUESTION:** What is *tell her what you know about exotic invasives*?
  - » What is *alert/inform others*?
- **ANSWER:** If my *next door neighbor* is getting ready to plant an invader in her garden, I can . . .

[Answer](#)[Question](#)

## Empower Me!

-400-

- **QUESTION:** What is a *volunteer*?
- **ANSWER:** a *person* who gives time freely to help identify and remove plant invaders in the Southern Appalachian Region

Answer

Question



## Empower Me!

-500-

- **QUESTION:**  
What is an *Invasive Species club*?
- **ANSWER:** interested students who meet in a *group* to help find solutions to the exotic invasive species problems in the Southern Appalachian Region

Answer

Question



## FINAL JEOPARDY

- **ANSWER:** all the living things in an area plus the non-living things in the surrounding environment

[question](#)

