
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>

Final Jeopardy

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](#)

