



# Bill Nye the Science Guy Populations



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# Implementation Guide

**Welcome to Disney's Bill Nye DVD collection!**  
**With the help of this Guide you can bring instructional DVDs into your science curriculum.**



## What's on the DVD?

Bill Nye DVDs expand the educational features of *Bill Nye the Science Guy* programs. Each DVD provides students with science content through video clips aligned with *National Science Education Standards (NSES)* and a host of other resources.

Short video clips aligned with the NSES provide a unique opportunity for you to enhance your lessons using DVD technology. Now you can show a video clip, or even short segments of a clip, on command. But there are a host of other features, too! See the chart below for a summary.

From the **Main** menu, there are three chief sections:

Feature	Description
Watch Program Menu	From this menu, you can play the program straight through or use the clips to customize your viewing.
Teacher Support	From this menu, you can access this Teacher's Guide, the Glossary, Internet Links, and the Quiz.
Bonus Materials	Use this menu to try a different discussion starter, download a special screen-saver, or check out never-before-seen footage.

From the **Watch Program** menu, you can:

Feature	Description
Play Program	Play the entire program from start to finish.
Bilingual Mode	View the entire program or clips in English or Spanish.
Glossary Mode	Make links to Glossary terms appear during the program.
Program Overview	View the program introduction, in which Bill discusses the topic covered.
Try This	Show students demonstrating science concepts.
Way Cool Scientist	Meet a real scientist who talks about his or her area of study.
Bill's Demonstration	Look at a science demonstration conducted by Bill Nye.
Music Video	Enjoy a short music video that summarizes the topic in an age-appropriate and entertaining manner.
Science Standards	Take advantage of short video clips from the program, which are aligned with National Science Education Standards.

## From the **Teacher Support** menu, you can:

Feature	Description
Science Quiz	Give students a quiz to take independently or as a class. Seven to ten quiz items are aligned with the National Science Education Standards. The items are in multiple-choice or true-false format. Each wrong answer links to a standards-aligned video clip. At the end of the quiz, a scoring function reveals the number of correct initial answers.
Glossary	Check out definitions of key terms and view video clips that reinforce the concepts.
DVD Features	View a quick overview of the features found on the DVD.
Teacher's Guide	Print out or view this comprehensive Teacher's Guide in PDF format.
Internet Link	Link to the Bill Nye area of Disney's Edustation Web site, where you can find links to Internet sites related to the content of each Bill Nye program.

## From the **Bonus Materials** menu, you can:

Feature	Description
Bonus Material	Find out what <i>wasn't</i> in the episode! In most cases, there's more of the Way Cool Scientist interview, Bill Nye outtakes, and an extra discussion starter.
Additional Clips	See trailers of related DVDs and videos.
Screen-Saver	Download this cool screen-saver for your computer.

## The Planning Process

This Guide provides a Lesson Planning Worksheet (see page 12), which can assist you in setting up your instruction around a topic. The following sections of this Implementation Guide are offered to assist your planning process:

- **Determining Objectives and Linking to Standards**
- **The Learning Cycle**
  - Explore
  - Apply
  - Extend
  - Assess



## Determining Objectives and Linking to Standards



1. The NSES Teaching Standard A states that science teachers must “select science content and adapt and design curricula to meet the interest, knowledge, understanding, abilities, and experience of students.”

The NSES recommends that teachers “integrate . . . a practical structure for the sequence of activities, and the content to be learned.” The primary instructional model recommended by the NSES is inquiry into authentic student-generated questions about natural or designed phenomena. Since most state and local standards documents were derived from the NSES, you will find that your local and state standards match closely with content standards in the Bill Nye DVD.

Each DVD contains a menu of clips that are aligned with the NSES. You can review the standards and their aligned clips in the Science Standards menu under Watch Program. Also, the Standards listed on page 10 of this Guide allow you to look at additional NSES content standards that are addressed on the video. Here’s an example of the content standards and clips aligned with the Bill Nye DVD entitled *Blood and Circulation*:

### Life Science Standards (NSES) Addressed in *Blood and Circulation*

#### Life Science:

#### Structure and function in living systems

- Living systems at all levels of organization demonstrate the complementary nature of structure and function.

#### Aligned clips:

- 1 Blood vessels
  - 2 Heart pump and bloodstream
  - 3 Heart valves and blood circulation
  - 4 White blood cells
  - 5 Capillaries
- The human organism has systems for digestion, respiration, reproduction, circulation, excretion, movement, control, and coordination, and for protection.

#### Aligned clips:

- 6 Heart pump
- 7 Heart muscle
- 8 Pumping blood to brain



- Determine your objectives for the lesson and how these objectives address the standards.

### Sample Objectives for *Blood and Circulation*

In this activity students will:

- Observe and describe a body system responsible for supply and transport.
- Use this information to define a body system.
- Ask questions about the circulatory system.
- Explain how structure complements function in organs of the circulatory system.
- Cite examples of current research related to this system.

- Design a learning cycle of instructional experiences and assessments for the students to engage in that will help students meet these standards. Students may be given teacher-planned investigations or may be guided to design their own investigations.

## The Learning Cycle



The learning cycle is a sequence of activities that involve students in the learning process. The sequence found here is based on research from Lawson, Abraham, and Renner published in 1989. That has been adapted to include: Explore, Apply, Extend and Assess:

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**Explore:** Involves assessing students' prior knowledge and providing opportunities for students to interact with content from the video.

**Apply:** Includes having students use the content learned during the Explore section in a new way that is meaningful to future learning.

**Extend:** Allows students to conduct further research around an area of interest within the topic.

**Assess:** Provides strategies meant to inform students and teachers about the content and processes that have been learned.

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## Explore

The NSES Teaching Standard B states: "Teachers of science guide and facilitate learning." This standard addresses the constant need to balance your predetermined goals with allowing students to set and meet their own learning goals.



*Focus and Support Inquiries:* Support student inquiries by making decisions about "when to provide information" and "when to connect students with other sources." Knowing the best time to intervene is often determined by allowing students to ask questions and to explore concepts openly.



The NSES Teaching Standard C states: “Teachers of science engage in ongoing assessment of their teaching and of student learning.”

*Assess in Order to Guide Teaching:* The Program Overview or the Discussion Starter on the DVD can be used to gauge students’ prior knowledge. You can use student responses to make decisions about appropriate instruction and adaptations in order to meet the needs of individual students. Assessment can be in the form of student reflections from standards-aligned video clips or answers to questions found on the science quiz. Or, as in the following example, a simple graphic organizer can facilitate a formative assessment.

### Example: T-Chart from *Blood and Circulation*

1. Ask students to fill out the “Know-New” T-Chart (see page 14). Have them list what they already know about the circulatory system (heart, blood vessels, blood, etc.) on the left side of their charts.
2. Show the Program Overview for *Blood and Circulation*. On the right side of the chart, have students list new things they have learned from watching the clip. Walk around the room and assist students in filling in their T-Charts. Replay the program as necessary to allow students to review sections of interest.
3. Once students have completed their charts, ask them to share what they have listed in the “New” column. Write these on the board. Have students write their own working definitions of the circulatory system. Once students have completed their definitions, collect and review their work to assess prior knowledge.

Conduct direct vocabulary instruction in the Explore phase. Research suggests that:

- Students must encounter words in context more than once to learn them.
- Instruction in new words enhances learning those words in context.
- One of the best ways to learn a new word is to associate an image with it.
- Direct vocabulary instruction on words that are critical to new content produces the most powerful learning.



Use the DVD Glossary with the linked video clips to expose students to new vocabulary words in context, along with associated video images. You can also find a printed version of the glossary terms in this Guide on page 16.

### **Example: Using the Glossary for Direct Vocabulary Instruction** ***Blood and Circulation***

1. Present students with a brief explanation or description of the new term or phrase from the glossary. For example: “Capillary: A small blood vessel that connects arteries and veins.”
2. Present students with a nonlinguistic representation of the new term or phrase. Show the video clip associated with the term “capillary.”
3. Ask students to generate their own verbal description of “capillary.”
4. Ask students to create their own nonlinguistic representation of “capillary.”
5. Periodically ask students to review the accuracy of their explanations and representations. This can be done after the Apply activities.

## **Apply**

Based on the information you gained from the Explore assessments, design appropriate activities for your students. Check the experiments listed in the Episode Guide (see page 11) for explanations of the demonstrations from the Bill Nye program as well as for additional experiments designed to help apply the knowledge gained.

In the following example from *Blood and Circulation*, the standards-based video clips provide background information, and an experiment from the Guide helps students apply what they have learned about arteries and veins.

### **Example: The Structure and Function of Arteries and Veins**

1. Have students begin “Know-New” T-Charts, focusing on what they already know about the structure and function of blood vessels, arteries, and veins.
2. Watch the following chapters from the Bill Nye DVD *Blood and Circulation*:
  - Blood vessels
  - Heart pump and bloodstream
  - Capillaries
3. Complete the “Know-New” T-Charts.
4. Give students copies of the Student Recording Sheet (see page 15) and have them fill the sheets out as they conduct their experiments.
5. Do the experiment entitled “Pump it Up!” from the *Blood and Circulation* Episode Guide, in which students observe the apparent effects of pressure on arteries and veins.
6. Write down any remaining questions about the structure and function of blood vessels, arteries, and veins.



## Extend

The NSES Teaching Standard D states: “Teachers of science design and manage learning environments that provide students with the time, space, and resources needed for learning science.” School administrators, parents, and the community can assist teachers in providing local resources that make science lessons pertinent and meaningful.

*Identify and Use Resources Outside of the School:* “The school science program must extend beyond the walls of the school.” Each Bill Nye DVD contains resources designed to facilitate such understanding, including:

- Way Cool Scientist, found in both Watch Program and Bonus Materials, in which scientists discuss their current areas of study. This real-world connection often results in a deeper student understanding of a particular career.
- Disney’s Edustation Web site, where relevant Internet links provide a starting point for students to further explore science topics.
- Try these video clips, with activities parents and students can do at home. The questions generated by students from these experiences can be used as foundations from which they may conduct their own research.
- Standards-aligned video clips and Bill’s demonstration video clips, which can help generate topics for further research. After viewing the clips, have students list their questions, perhaps about the most current developments in a topic. By conducting online or library research, students will find answers to their questions and will learn about a topic in greater depth.



### Example: Conducting Student Research Using *Blood and Circulation*

Ask students to choose one of the questions they had after completing the activities from *Blood and Circulation*. An example of a student research question might be, “How has the technology related to artificial hearts advanced in the last ten years?” Explain to students that they will be conducting research to find answers to their questions. Some students may want to complete online or library research, others may want to ask an expert in the field, while others may want to design and conduct a scientific investigation. Encourage students to write a detailed procedure for finding answers to their questions. Ask students to find one or more examples of current research dealing with the circulatory system that is related to their question. NOTE: Students with similar questions may work together to complete the assignment.



## Assess

Once students have conducted the research, you may choose to assess them in a number of different ways:

- By having students write about what they learned in a journal.
- By having students submit projects or reports.
- By having students take the program quiz to gauge their understanding of certain facts in the video. You can either print the quiz (found in this Guide on page 18) and have each student complete it individually or use the DVD screen version and the scoring feature for whole-class assessment.
- By designing other standards-aligned questions to augment those that are provided.

While the quiz will provide you with information about what the students have learned, it does not assess how students have processed the information. Below you will find assessment ideas that can be used to measure both content and process.

### A Sample Assessment for *Blood and Circulation*

1. Explain to students that an important aspect of scientific inquiry is to communicate findings to others. In this assessment, students will present the following information to their peers:
  - The question they investigated.
  - The method that was used to find answers to their question.
  - Problems or successes during the search.
  - Answers to their question.
  - Current research related to their question.
  - New questions that have arisen.
2. Distribute the rubric found in the Lesson Planning Worksheet (see page 13) to students so they know how they will be assessed. Make sure students understand the criteria found in the rubric. Before you begin, you may want to allow students to make changes to the rubric so that it is clearer or makes more sense from their perspectives.
3. Allow students time to gather information to answer their questions and to prepare for their presentations. As students conduct this work, walk around the room and ask questions to assess their progress and provide input as needed.
4. Take a few minutes to clarify the rules of the presentation with the students. You may want to have multiple copies of the rubric available so that peers can rate the presentations.
5. As presentations are made, assess the quality of the student's work as thoroughly and as equitably as you possibly can.



Congratulations! You have now completed the steps to set up a lesson plan using the Lesson Planning Worksheet. You have also explored many of the features of the Bill Nye DVD as well as the supplemental information found in this Teacher's Guide. And most important, you've made significant strides toward incorporating DVD technology into your day-to-day instruction.

# National Science Education Standards

## Populations

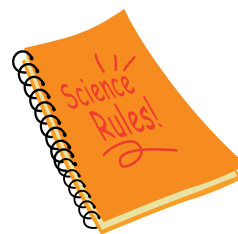
### Standards/Benchmarks

#### Grades K-4

#### Science as Inquiry

##### Abilities necessary to do scientific inquiry

- Ask a question about objects, organisms, and events in the environment.
- Plan and conduct a simple investigation.



##### Understandings about scientific inquiry

- Scientific investigations involve asking and answering a question and comparing the answer with what scientists already know about the world.
- Scientists use different kinds of investigations depending on the questions they are trying to answer. Types of investigations include describing objects, events, and organisms; classifying them; and doing a fair test (experimenting).

#### Life Science

##### The characteristics of organisms

- Organisms have basic needs. For example, animals need air, water, and food; plants require air, water, nutrients, and light. Organisms can survive only in environments in which their needs can be met. The world has many different environments, and distinct environments support the life of different types of organisms.
- The behavior of individual organisms is influenced by internal cues (such as hunger) and by external cues (such as a change in the environment). Humans and other organisms have senses that help them detect internal and external cues.

##### Organisms and their environments

- An organism's patterns of behavior are related to the nature of that organism's environment, including the kinds and numbers of other organisms present, the availability of food and resources, and the physical characteristics of the environment. When the environment changes, some plants and animals survive and reproduce, and others die or move to new locations.
- All organisms cause changes in the environment where they live. Some of these changes are detrimental to the organism or other organisms, whereas others are beneficial.

#### Science and Technology



##### Understandings about science and technology

- Women and men of all ages, backgrounds, and groups engage in a variety of scientific and technological work.



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## Science in Personal and Social Perspectives

### Characteristics and changes in populations

- Human populations include groups of individuals living in a particular location. One important characteristic of a human population is the population density—the number of individuals of a particular population that lives in a given amount of space.
- The size of a human population can increase or decrease. Populations will increase unless other factors such as disease or famine decrease the population.

### Types of resources

- Resources are things that we get from the living and nonliving environment to meet the needs and wants of a population.

### Changes in environments

- Environments are the space, conditions, and factors that affect an individual's and a population's ability to survive and their quality of life.
- Changes in environments can be natural or influenced by humans. Some changes are good, some are bad, and some are neither good nor bad. Pollution is a change in the environment that can influence the health, survival, or activities of organisms, including humans.
- Some environmental changes occur slowly, and others occur rapidly. Students should understand the different consequences of changing environments in small increments over long periods as compared with changing environments in large increments over short periods.

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## Grades 5-8

### Science as Inquiry

#### Abilities necessary to do scientific inquiry

- Identify questions that can be answered through scientific investigations.
- Design and conduct a scientific investigation.
- Use appropriate tools and techniques to gather, analyze, and interpret data.



#### Understandings about scientific inquiry

- Different kinds of questions suggest different kinds of scientific investigations. Some investigations involve observing and describing objects, organisms, or events; some involve collecting specimens; some involve experiments; some involve seeking more information; some involve discovery of new objects and phenomena; and some involve making models.

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## Life Science

### Populations and ecosystems

- A population consists of all individuals of a species that occur together at a given place and time. All populations living together and the physical factors with which they interact compose an ecosystem.
- The number of organisms an ecosystem can support depends on the resources available and abiotic factors, such as quantity of light and water, range of temperatures, and soil composition. Given adequate biotic and abiotic resources and no disease or predators, populations (including humans) increase at rapid rates. Lack of resources and other factors, such as predation and climate, limit the growth of populations in specific niches in the ecosystem.

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## Science in Personal and Social Perspectives

### Populations, resources, and environments

- When an area becomes overpopulated, the environment will become degraded due to the increased use of resources.
- 

## History and Nature of Science

### Science as a human endeavor

- Women and men of various social and ethnic backgrounds—and with diverse interests, talents, qualities, and motivations—engage in the activities of science, engineering, and related fields such as the health professions. Some scientists work in teams, and some work alone, but all communicate extensively with others.
- 



# Episode Guide

## Populations

### Nifty Questions in This Episode

What are all living things (people, plants, insects, etc.) a part of?

Do ants, plants, cows, spiders, sharks, and people depend on each other?

What may happen when environments change?

### Awesome Answers

Populations.

Yes!

Populations may all die (lack of food, shelter).

### Experiments shown on the video:



#### MULTIPLICITY

*Objective: To understand how weeds proliferate.*

- A weed seed will produce another seed (proliferation). Using a calculator, multiply two times two for day one.
- Multiply that answer by two for day two.
- Continue to multiply your answer by two daily for one week. What's your answer?
- Continue to do this for 10 weeks. Now what's your answer?
- Try this with pennies and keep doubling amount.

### More interesting stuff to do:

#### PLANT POPULATIONS

*Objective: To demonstrate how plant populations compete in environments for survival.*

- Cut an empty two-liter plastic soda bottle in half by poking a hole and then cutting with scissors. Set the bottom half upright, resting on a tabletop. Fill with dirt and potting soil to 1" from the top.
- Poke your little finger 10-15 times into the top of soil just past your fingernail.
- Plant a variety of seeds (carrots, corn, sunflower, beans, beets, radish, wild flowers, etc.) in each hole and cover with dirt. Water and record growth.
- Observe the plants that compete and take over, and those that die. Explain your discoveries; are the plants competing in their environment?
- Place the other half of the bottle in a glass for support, with the neck down, and repeat the above experiment. Where do the roots go? Why?



*Bill Nye the Science Guy*  
**Lesson Planning Worksheet**

**Lesson Title** \_\_\_\_\_

**Objectives** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Estimated Time Required** \_\_\_\_\_

**Materials Needed** \_\_\_\_\_  
\_\_\_\_\_

**National Science Educational Standards**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Explore** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Apply** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Extend** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Assess

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As presentations are made, assess the quality of the student's work as thoroughly and as equitably as you possibly can. The following criteria can be used to assist in your assessment.

Name of Student \_\_\_\_\_

Question Investigated \_\_\_\_\_

Initial Question			
1 Question is broad and not well defined	2 Question is defined but limited to single-answer responses.	3 Question is clear and might elicit multiple responses that may lead to new ideas and additional questions.	4 Question is engaging and provokes new ways of thinking about an issue.
Methods for Finding Answers			
1 Students do not share planned or actual methods.	2 Students share methods but they are unclear or vague.	3 Students share methods but not the problems or successes of using the methods.	4 Students share methods and problems or successes in using the methods.
Results			
1 Student results are undefined.	2 Student results are incomplete and do not adequately answer the question.	3 Student results are complete, adequately answer the question, and include current research related to the question.	4 Student results are complete, include current research, and have resulted in one or more additional questions.
Communication			
1 Student is not prepared to speak.	2 Presenter has distracting mannerisms and avoids eye contact with the audience.	3 Presentation is clean and clear with some eye contact and very few distractions.	4 Presentation is exceptional and unique. Presenter uses regular eye contact and avoids distractions.

*Bill Nye the Science Guy*  
**Student “Know / New” Chart**

**Know**

Write down what you know about the topic of the video.

**New**

Write down information from the video that is new to you.

*Bill Nye the Science Guy*  
**Student Recording Sheet**

\_\_\_\_\_  
**Name**

\_\_\_\_\_  
**Date**

**Title of Experiment** \_\_\_\_\_

**Question: (What are you testing?)** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Procedure: (Describe the experiment)** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Materials: (List what you used)** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Observations: (Record what happened)** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Results: (Make your own data table)**

--

**Conclusions: (Use your observations and results to describe what you learned)**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Glossary

## Populations

Fold and cut to use as flashcards.

*Bill Nye the Science Guy*

### POPULATION

#### **Population**

A population is formed by a group of organisms (living things) of the same species living together in a given place at the same time. All living things, from microscopic parasites to human beings, are part of a population.

*Bill Nye the Science Guy*

### COMPETE

#### **Compete**

Populations compete or struggle with each other for available resources, like food, sunlight, and water, as well as places to live. Such competition allows populations to keep each other under control.

*Bill Nye the Science Guy*

### BACTERIA

#### **Bacteria**

Bacteria are microscopic, single-celled organisms that live everywhere. Bacteria populations can grow quickly. Some bacteria are beneficial and help with digestion; however, often they cause infection and disease.

*Bill Nye the Science Guy*

### HABITAT

#### **Habitat**

A habitat is the place or environment in which organisms live. It includes all resources (food, water, shelter, and space) necessary for survival and reproduction.

Fold and cut to use as flashcards.

*Bill Nye the Science Guy*

# MICROORGANISMS

## **Microorganisms**

Living things that can only be seen with a microscope. Bacteria, viruses, protozoans, and some fungi are types of microorganisms.

*Bill Nye the Science Guy*

# PARASITE

## **Parasite**

A living thing that lives off another larger organism (its host), without benefiting the host. The parasite can grow on or in the host's body and may feed from it.

*Bill Nye the Science Guy*

# OVERPOPULATED

## **Overpopulated**

An area becomes overpopulated when there are not enough available resources to maintain the populations. Overpopulation can destroy the environment, decrease the quality of life or force out populations.

*Bill Nye the Science Guy*

# ENDANGERED SPECIES

## **Endangered Species**

Endangered species are organisms that are in danger of becoming extinct if their living conditions are not improved. Habitat destruction and pollution are some of the major causes of extinction.

Name \_\_\_\_\_

Date \_\_\_\_\_

# Quiz

## Populations



### True or False? Circle T or F

1. All living things are part of a population. T or F
2. Adding more organisms to a population does not affect the existing populations. T or F
3. Populations go up or down depending on the resources available. T or F
4. Populations of tulips do not compete with other organisms. T or F
5. Human populations sometimes cause other populations to move. T or F

### Multiple Choice: Circle the letter of the best answer

6. Which of the following make up populations?
  - A. Plants
  - B. Insects
  - C. Microorganisms
  - D. All of the above
7. Which of the following is true about populations?
  - A. Populations always increase.
  - B. Human populations have doubled in size.
  - C. Human populations have stayed about the same.
  - D. None of the above
8. Which of the following determines the success or failure of a species?
  - A. Rate of reproduction
  - B. Amount of food supply
  - C. Number of natural enemies
  - D. All of the above
9. Which of the following is true about deer and wolf populations?
  - A. As the wolf population decreases, the deer population also will decrease.
  - B. As the wolf population increases, the deer population decreases.
  - C. The deer population has no effect on the wolf population.
  - D. As the wolf population increases, the deer population also increases.
10. Which of the following is the definition of an endangered species?
  - A. A population that is no longer alive
  - B. A population who has large numbers
  - C. A population that is in danger of becoming extinct
  - D. A population that can be legally hunted

# Answer Key

## Populations

1. **T**

4. **F**

7. **B**

9. **B**

2. **F**

5. **T**

8. **D**

10. **C**

3. **T**

6. **D**



ENDANGERED SPECIES

SCIENCE

