

Timeline

Follow the instructions to complete the activity.

NAME

DATE

Match the year to the correct description. Check your answers with page 7 of the book.

1	1959
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The Interagency Coordination Committee on the Validation of Alternative Methods (ICCVAM) is established to research alternatives to animal testing.

2	2000
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The Animal Welfare Act becomes law, setting care requirements for animals. However, many common test animals are not included in the law.

3	1938
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Russian physiologist Ivan Petrovich Pavlov is awarded the Nobel Prize in Physiology or Medicine for his work using animals to understand digestion.

4	2018
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In their book, *The Principles of Humane Experimental Technique*, William Russell and Rex Burch create guidelines known as the Three Rs of animal testing.

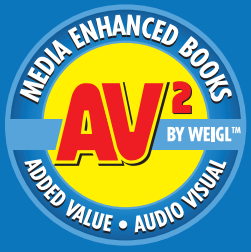
5	1904
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The United States Food, Drug and Cosmetic Act becomes law. This requires that cosmetics and drugs be tested to ensure their safety.

6	1966
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California becomes the first U.S. state to ban cosmetics that are tested on animals. This law will take effect on January 1, 2020.





True or False

Follow the instructions to complete the activity.

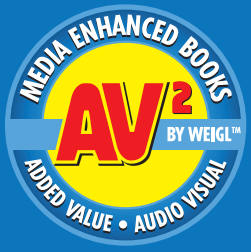
NAME

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Using the information in *Animal Testing*, verify whether the following information is true or false. Check your answers in the book. List the page number where you found your information beside your answer.

Statement 1	<input type="text" value="Animals that are more stressed tend to produce more accurate test results."/>	<input type="checkbox"/> True	Page	<input type="text"/>
		<input type="checkbox"/> False	Number	
Statement 2	<input type="text" value="Some drugs that did not work when tested on animals have been quite helpful for humans."/>	<input type="checkbox"/> True	Page	<input type="text"/>
		<input type="checkbox"/> False	Number	
Statement 3	<input type="text" value="The United States Food, Drug and Cosmetic Act became law in 1966."/>	<input type="checkbox"/> True	Page	<input type="text"/>
		<input type="checkbox"/> False	Number	
Statement 4	<input type="text" value="Lab animals are often kept apart in large cages."/>	<input type="checkbox"/> True	Page	<input type="text"/>
		<input type="checkbox"/> False	Number	
Statement 5	<input type="text" value="Scientists must develop new flu vaccines every year."/>	<input type="checkbox"/> True	Page	<input type="text"/>
		<input type="checkbox"/> False	Number	





Facing the Issues

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People have many different opinions about animal testing. Using information found in the book and online, briefly identify and explain the arguments used in favor of and against animal testing.

State which opinion you agree with and why.



NAME

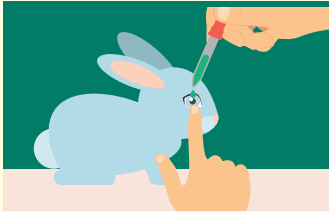
DATE

In your own words, describe the different ways animals may suffer from animal testing.

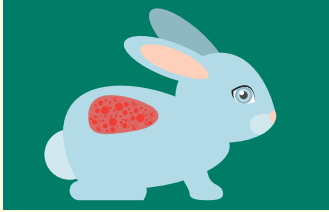
Toxicity



Eye Irritation



Skin Irritation

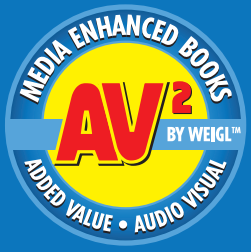


Reproductive Toxicity



Developmental Toxicity





Animal Testing by the Numbers

Follow the instructions to complete the activity.

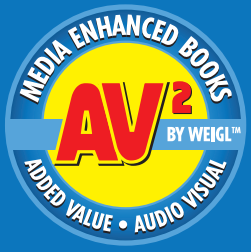
NAME

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Using the information in *Animal Testing*, select an answer from the right and write the letter in the box beside the statement.

- | | | |
|--------------------------------------------------------------------------------------------------------------|--------------------------|-------------------|
| 1. Mice have more than this percentage of the same genes as humans. | <input type="checkbox"/> | A. 1 |
| 2. This many hamsters were used for research in 2016 in the United States. | <input type="checkbox"/> | B. 80 |
| 3. Cells from the kidneys of this many African green monkeys helped develop vaccines for polio and smallpox. | <input type="checkbox"/> | C. 12,196 |
| 4. This many sheep were used for research in 2016 in the United States. | <input type="checkbox"/> | D. 65 |
| 5. More than this many vaccines for HIV worked when tested on chimpanzees, but are not safe for humans. | <input type="checkbox"/> | E. 95 |
| 6. The majority of people suffering from Alzheimer's are this age or older. | <input type="checkbox"/> | F. 90 |
| 7. Rats, mice, fish, and birds make up more than this percentage of animals tested. | <input type="checkbox"/> | G. 102,633 |





Quiz

Test your knowledge by answering these questions.

NAME

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- 1** Which animals are not included in most animal protection laws?
- 2** Why do humans and other animals often get the same diseases?
- 3** What was the first U.S. state to ban cosmetics tested on animals?
- 4** Which painkiller was approved in 1999 but withdrawn because it could cause serious injury or death in humans?
- 5** What is the study of animal tissues called?
- 6** How has the cancer survival rate in the United States changed since 1970?
- 7** What are the Three Rs of animal testing?
- 8** When were the first pacemakers created?



Key Words Match-Up

Write the words from the list below in the box above the correct definition for each word.

NAME

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KEY WORDS

diagnose
genes
glucose
hypertension
inflammation

MRI scans
procedures
simulation
symptoms
transplants



1.
an unhealthy level of high blood pressure
2.
procedures that use radio waves and a strong magnet to produce detailed images of the inside of the body
3.
something that is made to look or feel like something else
4.
surgeries in which an organ or other body part is removed from one person or animal and placed into the body of another person or animal
5.
tiny parts of cells that tell the cells how to perform certain functions or cause the body to develop certain traits

6.
signs of an illness or disease
7.
established ways or orders of doing something
8.
heat, redness, and swelling that are part of the body's response to disease
9.
to determine the disease that a person or animal has
10.
a sugar found in plants that is converted to energy by the body

