

1/15/15

47 Which cell parts are found in pairs and move towards the opposite ends of the nucleus during cell division?

- A** centrioles
- B** vacuoles
- C** ribosomes
- D** Golgi bodies

You must explain why your answer is correct.

Please write the page number in your book that supports your explanation.

Use the index of your book to help you.

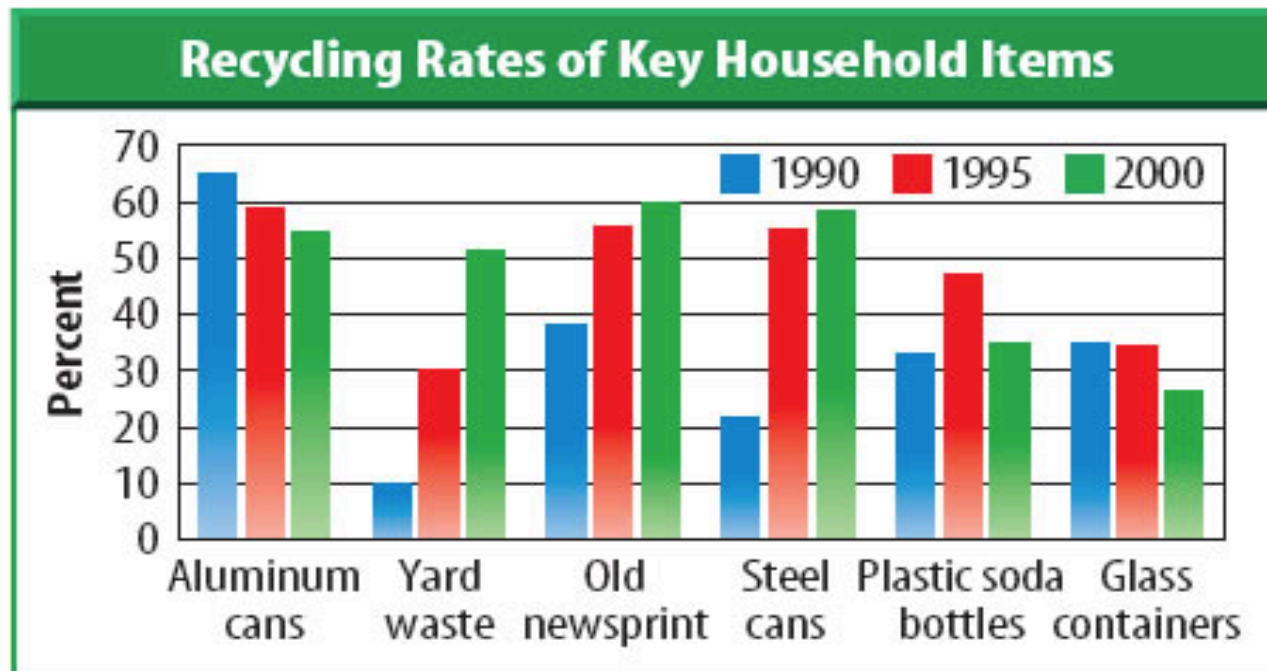
Chapter 12 sec. 2

part 2

Evaluate how human activities affect the condition of the earth's land, water and atmosphere. 0707.7.9

Question

Which of these cannot be recycled?



Source: U.S. EPA, 2003

- A) glass
- B) metals
- C) radioactive wastes
- D) plastics

Greenhouse Effect

- Video
- Quiz – Take out white board silently.

Global Warming

<https://www.youtube.com/watch?v=oJAbATJCugs>

EFFECTS OF GLOBAL WARMING

- **Changing rainfall patterns could alter ecosystems and affect the kinds of crops that can be grown in different parts of the world.**
 - **The number of storms and hurricanes might increase.**
 - **The polar ice caps might begin to melt, raising sea levels and flooding coastal areas.**
- What are some effects of global warming mentioned in the video?
 - What are some ways that we can help the planet that are not mentioned in the video?

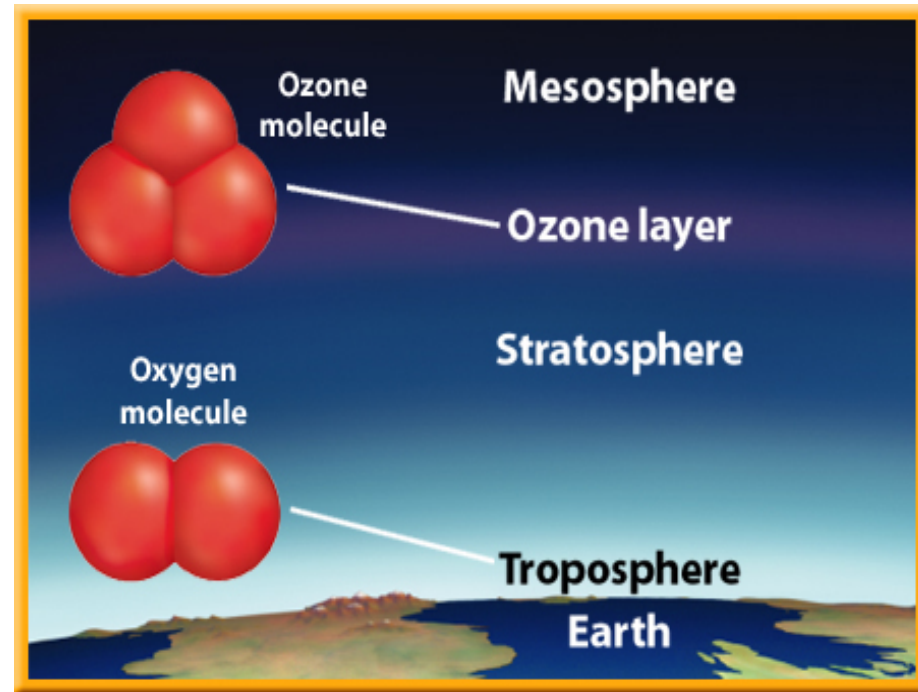
Ozone Layer

- <https://www.brainpop.com/science/earthssystem/ozonelayer/>
- Complete the graphic organizer as you view the video.

Ozone Depletion

Read p. 371 and fill in the blanks

- About 20 km above Earth's surface is a portion of the atmosphere known as the _____.
- Ozone is a form of _____.
- The ozone layer _____ some of the Sun's harmful ultraviolet (UV) radiation.
- UV radiation can damage some _____.
- Every year, the ozone layer temporarily becomes _____ over each polar region during its spring season.
- This problem is caused by certain pollutant gases, especially chlorofluorocarbons (klor oh FLOR oh kar bunz) (CFCs).
- CFCs react chemically with ozone, breaking apart the ozone molecules.



Infer: What will happen if the ozone layer continues to thin?

UV Radiation

- **Because of ozone depletion, the amount of UV radiation that reaches Earth's surface could be increasing.**
- **UV radiation could be causing a rise in the number of skin cancer cases in humans.**
- **World governments and industries have agreed to stop making and using CFCs.**
- **Near Earth's surface though, it can be harmful. Ozone is produced when fossil fuels are burned.**
- **The ozone stays in the lower atmosphere, where it pollutes the air.**
- **Ozone damages the lungs and other sensitive tissues of animals and plants.**

What is the difference between ozone in the upper atmosphere and ozone in the lower atmosphere?

Indoor Air Pollution

<http://education-portal.com/academy/lesson/what-is-indoor-air-pollution-definition-sources-effects.html>



3.22 minutes

How are these images examples of indoor air pollution?

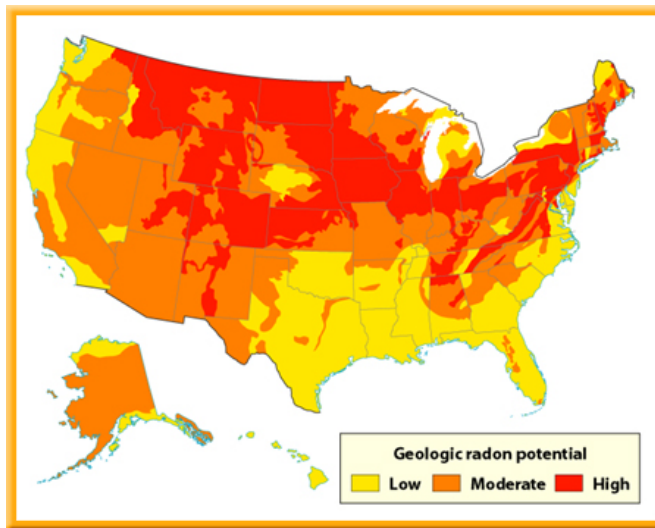
- Air pollution can occur indoors. Better insulation in today's buildings reduces the flow of air into and out of a building, so air pollutants can build up indoors.
- Paints, carpets, glues, and adhesives, printers, and photocopier machines also give off dangerous gases.
- Formaldehyde is a carcinogen, which means it can cause cancer.



Can you think of any other products that can cause indoor air pollution?

• Carbon Monoxide

- Carbon monoxide (CO) is a poisonous gas that is produced whenever charcoal, natural gas, kerosene, or other fuels are burned.
- CO poisoning can cause serious illness or death.
- Fuel-burning stoves and heaters must be designed to prevent CO from building up indoors.
- CO is colorless and odorless, so it is difficult to detect.



Radon

- Radon is a naturally occurring, radioactive gas that is given off by some types of rock and soil.
- Radon has no color or odor. It can seep into basements and the lower floors of buildings.
- Radon exposure is the second leading cause of lung cancer in this country.

Examine the map on p. 372.

Which area of the country with soils produce the most radon gas? Why is that important to know? How could you decrease the levels of radon in your home?

Exit Ticket

What is the most important thing you learned today?