

NYSTROM

ATLAS

Our Changing World





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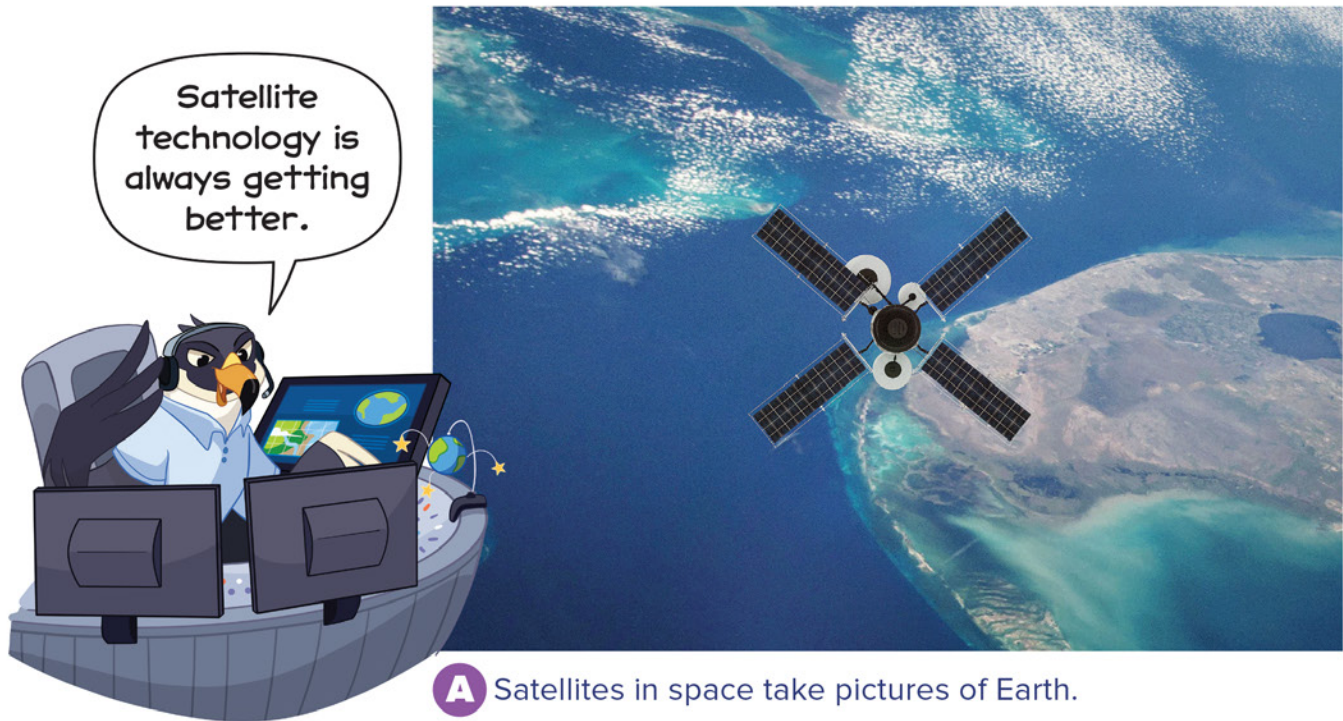
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How does technology

Pictures taken by satellites help us see things that we cannot see from Earth. This **technology** lets us see how places change over time.



A Satellites in space take pictures of Earth.



B A satellite took this photo of the **city** of Cancún, Mexico, in 1985. The gray part is the city.



C This satellite photo of Cancún was taken in 2019. How has the city changed?

Over 1,300 types of birds live in the Amazon rain forest.

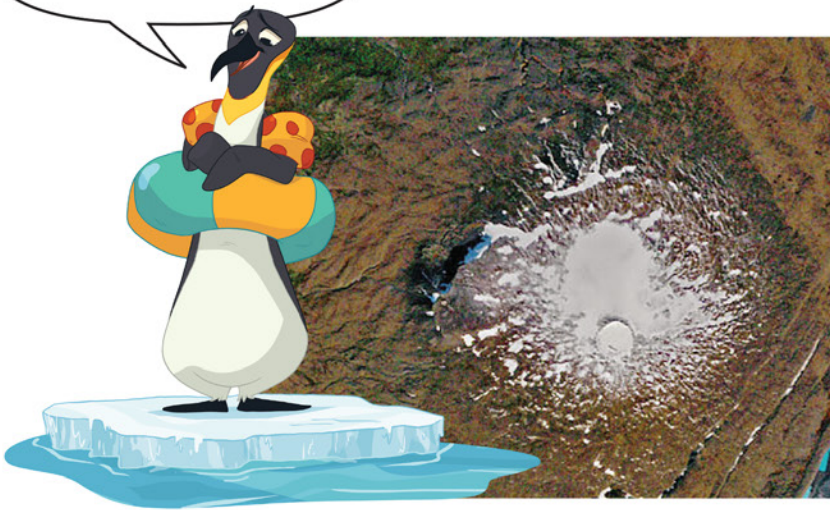


D A satellite took this photo of the Amazon rain forest in Brazil in 2001. The dark-green areas are trees.



E This photo shows that same area in 2019. Can you tell how the rain forest has changed?

Glaciers all over the world are melting quickly.



F A satellite took this photo of the Okjökull glacier in Iceland in 1984.



G This photo was taken 35 years later, in 2019. It shows how much the glacier has melted.

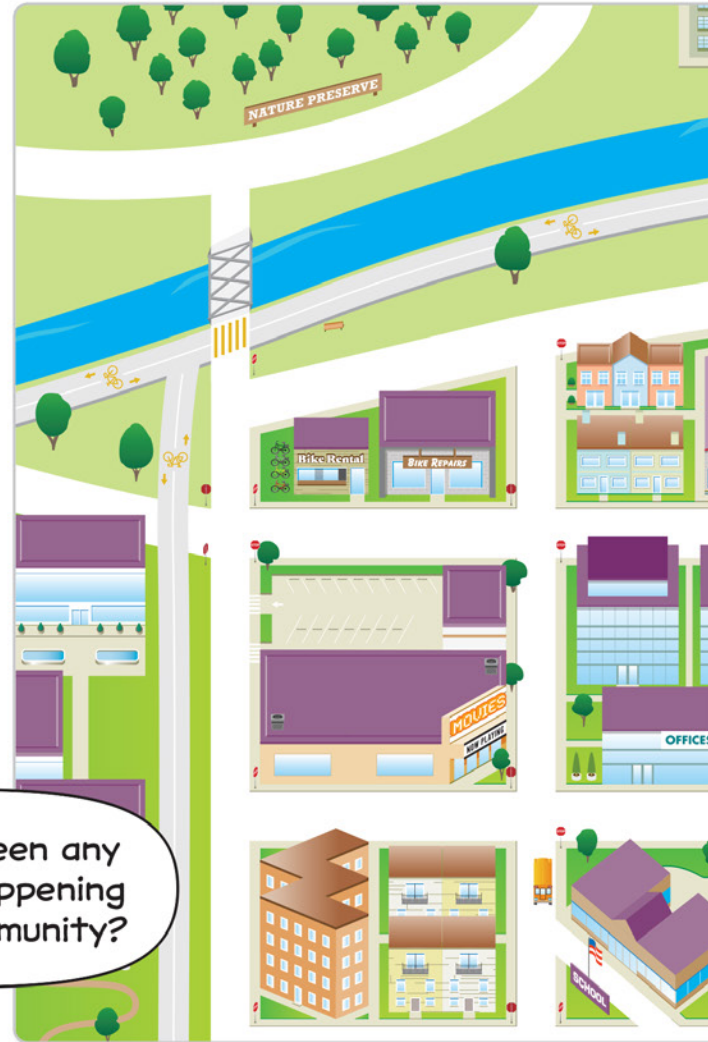
Some communities become smaller over time, while other communities grow. When communities grow, they change in many ways.



A As communities grow, more houses and apartments are built.



Have you seen any changes happening in your community?



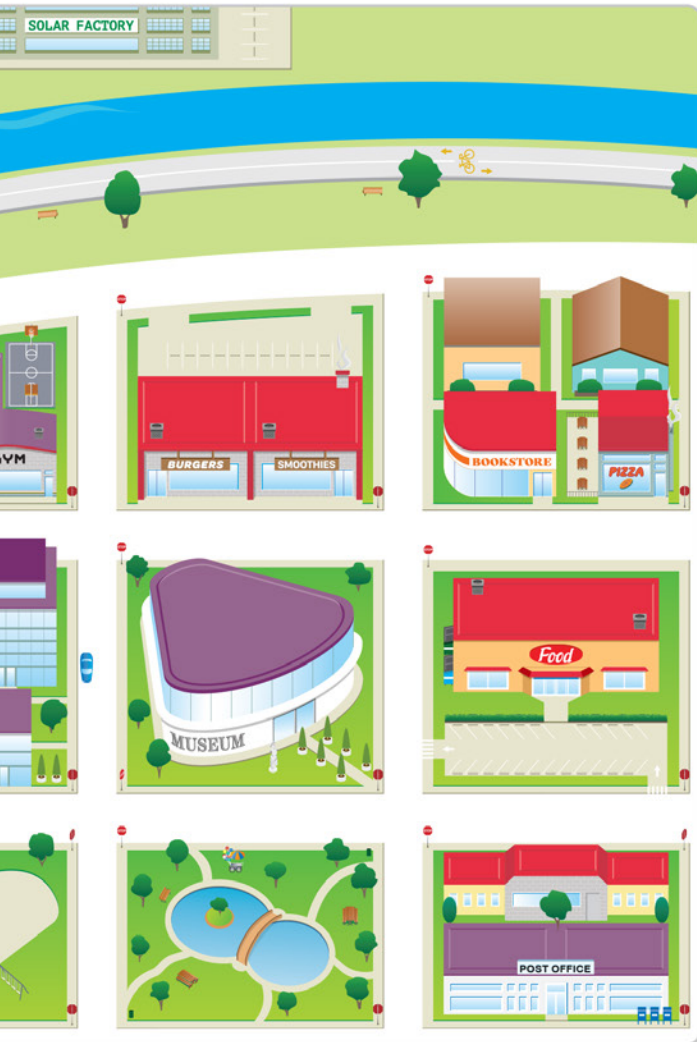
B New roads are built.



C New shops and restaurants open.

change over time?

29



F Some communities use new sources of electricity, such as **solar panels**.



How many types of transportation can you find on the map?



E More types of public **transportation**, such as buses, trains, and this electric streetcar, help people get around.



D Parks, libraries, and nature preserves are created. These are **public** spaces that are open to everyone.

NYSTROM

ATLAS

Our Changing World

STUDENT ACTIVITIES



THIRD EDITION

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Nystrom Education

A Division of Social Studies School Service
Culver City, California

How does technology show change?

Atlas pages

14–15



USING THE ATLAS

1. Distribute atlases. Have students turn to pages 14–15.
2. Read the title and topic sentences with the students. Then read the speech bubble above the first satellite image, as well as the caption for photo A. Remind students that they have already seen a satellite image on page 12 of the atlas. Point out that we see an actual satellite in photo A. Say:
 - **What is the satellite taking a picture of?** (Earth, ocean/water, land, clouds)
 - **Peregrine Falcon says that satellite technology is always improving, or getting better.** *Technology is an invention that can solve a problem or help people complete tasks. What are some other examples of technology?* (Answers will vary. Emphasize technology that students see and use, such as computers, phones, buses, machines.)
3. Remind students that the title asks how technology shows change over time. Read the captions for photos B and C. Say:
 - **Look at photos B and C. These satellite images both show the same location in Cancún, Mexico. What year was photo B taken?** (1985)
 - **What year was photo C taken?** (2019)
 - **Photo C was taken 34 years after photo B. What changes have happened in that time?** (Answers will vary and might include that the water is a different color and there is more gray. Accept these answers, and repeat that the gray is the city of Cancún. The students should see that the city has grown.)
4. In the same way, discuss the years each picture was taken and what changes have happened over time in Pictures D and E. Read Mealy Amazon Parrot's speech balloon with students. Ask:
 - **How might the changes we have observed in the pictures affect the birds who are living in the Amazon rain forest?** (The birds might move deeper into the unchanged forest, leave, get sick, or go extinct.)
5. In the same way, discuss the years each picture was taken and what changes have happened over time with photos F and G. Say:
 - **Emperor Penguin says that glaciers are melting all over Earth. What will happen if glaciers keep melting?** (Oceans could rise, water supply and temperatures in streams could change, summers in the area could be warmer, and homes or habitat for animals might be lost.)
6. Reread the title with the students. Ask:
 - **How do the satellite technology images show change?** (The images show changes in the environment that we would not otherwise notice, such as how humans are changing the environment.)
 - **How does seeing this change help us solve a problem?** (We can see the changes so we can take steps to avoid the changes such as preserving natural lands and habitats, planting trees, and taking other steps to protect the environment.)

▶ USING THE ACTIVITY SHEET

1. Distribute Activity Sheet 7, *Making Changes*. Read the title and introduction together.
2. Model how to complete one item on the activity sheet, as students do the same on their activity sheets. Say:
 - **What change could we make in a day to this picture? We are going to draw those changes in the second box. Before we draw, list some positive changes that we could make in a single day.** (pick up litter, plant flowers, put in a bench)
3. Draw some of those changes in the empty box.
4. Look at questions 2 and 3. Draw a line under the word or words that show how much time we have to make the changes.
5. Have students complete the next two drawings.



Science

Use Google Earth to show students satellite pictures of their school and other recognizable locations from the community. Ask students to fold a piece of paper in half. On the first half, ask students to draw a picture of the satellite view of their school. On the second, ask students to predict what the school might look like in twenty years. Invite students to write one or two sentences describing what changes technology will show in twenty years.

Name _____

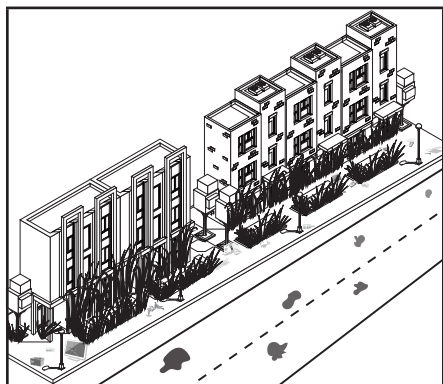


► Making Changes

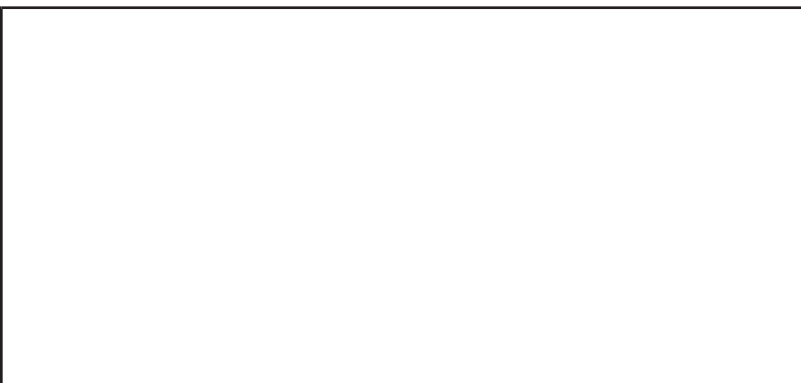
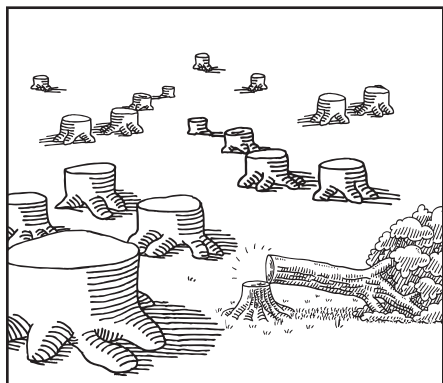
What changes could we make in **one day**? Draw a picture that shows how we can change this environment in a day.



What changes could we make in **one year**? Draw a picture that shows how we can change this environment in year.



What changes could we make in **ten years**? Draw a picture that shows how we can change this environment in ten years.





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SCHOOL SERVICE

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