Welcome to **BRAIN JUICE**

Dear Student,

Mahatma Gandhi is believed to have said that you should "be the change you want to see in the world," and that is what we want for you. We want to give you the tools to see, understand, and **change** the world around you to make it a better place.

In **BRAIN JUICE**, you will:

- investigate topics about the world, your community, and yourself;
- read fiction and non-fiction related to culture, history, and modern issues;
- develop everyday English skills you can go out and use the same day; and
- work on projects to **be the change** in your school, town, and family.

Your *Student's Book* is divided into nine units that address important issues inspired by *UNICEF's Global Framework on Transferable Skills* and the *United Nations Sustainable Development Goals*. After that, you can find a **Glossary** where these issues are explained, along with some words you can use to research them on your own.

Because we want to give you everything you need to be a healthy,

happy, and responsible world citizen, **BRAIN JUICE** takes inspiration from UNICEF's Global Framework on Transferable Skills and the United Nations Sustainable Development Goals.

Units inspired by UNICEF's Global Framework on Transferable Skills will help you to grow with an understanding of yourself, your personal responsibilities, and ways to let out your feelings in healthy and creative ways.

Units inspired by *United Nations Sustainable Development Goals* will teach you about the world around you, either right outside your front door or on the other side of the world! They will also talk about what you can do to help make the world a better place for yourself, the people around you, and the people we share the planet with.

You will complete a group project inspired by the issues you have learned about in order to *See the Change* you can make if you really put your mind to it.

We know you can change the world. **BRAIN JUICE** will show you how.

BRAR JUCE BE THE CHANGE

Contentis

	Unit	Topic Presentation	Language Arts
]	Environmental Awareness How can we protect Earth's ecosystems?	Input Protecting wildlife 21st Century Skills Collaboration: River Cleanup	Input Drama story: <i>Local Hero</i> Grammar Subject Questions Writing Opinion Essay
2	Community Life How can we work together to solve problems?	Input Participating in society 21st Century Skills Communication: Start a Community Workshop	Input Short story: <i>Making Movies</i> Grammar Language of Negotiation Writing How-to Essay
3	Artistic Expression How can we express ourselves through painting?	Input Expressing emotions through art 21st Century Skills Creativity: Innovative Art	Input Realistic fiction story: <i>The Mother</i> of <i>Modernism</i> Grammar <i>Unless</i> Clauses Writing Response to Literature Essay
4	Social Justice How can we reduce inequality?	Input Human rights 21st Century Skills Critical Thinking: Creating a Brighter Future	Input Historical fiction: <i>The Story of Rosa Park</i> s Grammar Non-defining Relative Clauses Writing Opinion Speech
5	Financial Education How can we live more sustainably?	Input Sustainable practices 21st Century Skills Communication: Hosting a Clothes Swap	Input Modern fiction: <i>Family Business</i> Grammar Reported Speech Writing Compare-and-Contrast Essay
6	Health How should we use water to stay healthy?	Input Water-related health issues 21st Century Skills Critical Thinking: Saving Water	Input Historical anecdote: <i>The Village that</i> <i>Chose Quarantine</i> Grammar Third Conditional Writing Research Report
7	Self-Awareness How do we feel about ourselves?	Input Self-esteem 21st Century Skills Communication: The Benefits of High Self-esteem	Input Interview: <i>Beauty</i> Grammar Phrasal Verbs Writing Interview
8	Personal Autonomy How can we face and overcome adversity?	Input Facing and overcoming adversity 21st Century Skills Critical Thinking: New Rules in the Lunchroom	Input Biography: <i>Anne Sullivan and</i> <i>Helen Keller</i> Grammar <i>I wish</i> + Past Simple Writing Biography
9	Global Awareness How can we become better global citizens?	Input Being a citizen of the world 21st Century Skills Collaboration: Planning a Cross-Cultural Celebration	Input Realistic fiction: <i>Cultural Differences</i> Grammar Past Modals Writing Sketch

Everyday English

SEE THE CHANGE Page

Input How to maintain a balanced ecosystem Grammar Subject and Object Questions Speaking Interview about a balanced environment Vocabulary biodiversity, deforestation, ecosystem, endangered, extinct, pesticide	UN Sustainable Development Goal 13: Climate action Leaflet and Activity: Plant a Tree Day	9
Input Making decisions together Grammar Agreeing and Disagreeing Speaking Debate about rights and responsibilities Vocabulary authority, collaborate, compromise, democratic, politician, vote	UN Sustainable Development Goal 4: Quality education A Brochure: Working Together for a Better Future	23
Input How to be creative Grammar When Clauses Speaking Presentation about study habits Vocabulary conceptualism, consumerism, expressionism, impressionism, modernism	UNICEF Transferable Skills: Social skills A Painting: Show Your Feelings	37
Input Discrimination in schools Grammar Defining Relative Clauses Speaking Discuss ways to treat people as equals in our daily lives Vocabulary apartheid, boycott, discrimination, segregation, slavery, unjust	UN Sustainable Development Goal 10: Reduced inequalities A Presentation: Civil Rights	51
Input Sustainable practices in school Grammar Present Perfect Continuous Speaking Discuss healthy habits Vocabulary canvas, crop, free-range, habits, herbicide, organic, sustainable	UN Sustainable Development Goal 11: Sustainable cities and communities A Poll: Changing Habits	65
Input Saving water at home Grammar First Conditional Speaking Share ideas to save water at school and at home Vocabulary consumption, contaminated, drought, flood, poverty, sanitation	UN Sustainable Development Goal 6: Clean water and sanitation A Public Campaign: Save Water	79
Input Positive thinking can help our self-esteem Grammar Phrasal Verbs Speaking Talk about self-esteem and positive thinking Vocabulary body image, diet, exercise, self-confidence, self-esteem, well-being	UNICEF Transferable Skills: Emotional skills A Poster: Our Bodies and Stress	93
Input Managing difficult situations Grammar I wish + could/would Speaking Talk about overcoming challenges Vocabulary academic, adversity, discipline, interpersonal, priority, reframe, strategy	UNICEF Transferable Skills: Cognitive skills An Advice Seminar: I Really Met that Challenge!	107
Input Being respectful when experiencing a new culture Grammar Modal Verbs Speaking Discuss dos and don'ts of your own culture Vocabulary belief, cultural, custom, diversity, ethnicity, open-minded, tolerant	UN Sustainable Development Goal 16: Peace, justice and strong institutions A Video: Table Manners Around the World	121

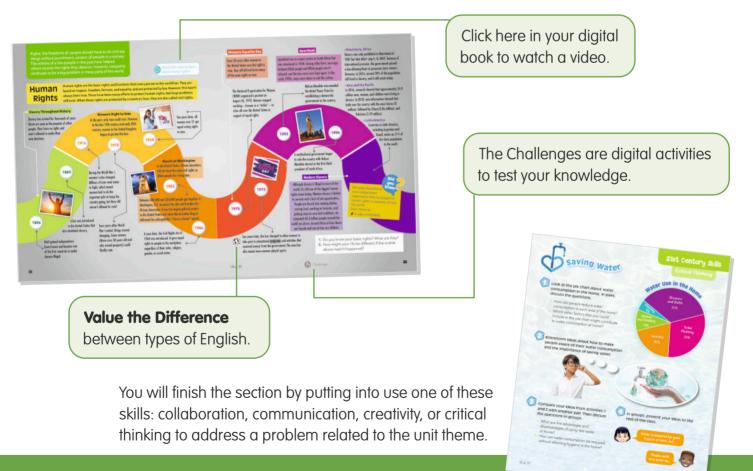
This Is Your Book

BRAIN JUICE has nine units where you will find three main sections.

On the first page of every unit, you will see a photo that will begin your discussions about the theme of the unit you are about to read and work with.



After that, you will find the **Topic Presentation**, which will give you more information about a global issue to discuss with your partners.



Then, in the **Language Arts** section, you will use the *Reader*, a book specially written for you, with a variety of literary genres and texts that will help you keep analyzing and discussing the unit theme. <image><image><complex-block>

You will also have analytical activities related to the *Reader* to keep practicing your reading strategies and continue the conversation with your partners.

_	The Marker of Maderson is a natical factor (bay, Railate Fator) we wantproble downeys and withing a full of warts (b show) for stars i projection of the marker of charts and the factors i projection of the marker of charts and the	A Write a summary of the stary in the Reader. Then compare the summaries below to your ease and mark (/) the mout accounts commany	
	<page-header><form><form><form></form></form></form></page-header>	<text><text><text><list-item><list-item><list-item><complex-block></complex-block></list-item></list-item></list-item></text></text></text>	Did you know? boxes offer you more information related to the unit theme.
The literary genres offer you a wide variety to read.	You will finish this se with a writing activit where you will work the elements of a sp literary genre.	ty, c with pecific c with a sector of the sector and design that we can be septimized as the sector of the sector and the sector of the sector and the sector of the sector of the sector and the sector of the sector of of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the se	And a second sec

The third section focuses on **Everyday English**. Here you will practice English in familiar situations.



Click here in your digital book do a digital activity.

make you reflect on certain issues.

> You will finish this section with a speaking page, where you will be able to express your opinions about the unit theme.





On the final page of the unit, you will **SEE THE CHANGE**. In this section, you will find out how the problems you identified throughout the unit can really be solved using your brain, your hands, and working in collaboration with your partners.

Unit 1 How can we protect Earth's ecosystems?

Environmental Awareness



All living things rely on each other to survive. Some species are in danger, and we all have a responsibility to protect them. Do you know any places that protect and preserve wildlife, such as nature reserves?

Watch the video to learn more about protecting wildlife.

Maintaining a Balanced Ecosystem

Ecosystems and Food Chains

An ecosystem is a community of different plants and animals that live together in the same area. All living things in an ecosystem are important to keep it balanced. An ecosystem can be as small as a pond in your backyard, or as big as a rainforest, desert, or ocean.

There are different relationships between plants and animals in all ecosystems. This sometimes means that one species benefits while others suffer. Some animals eat plants, and some animals eat other animals. There are even plants that eat insects and small animals.

They are all part of a natural food chain. Some food chains contain hundreds of species—if one plant or animal becomes extinct in that food chain, it can have an effect on hundreds of other species in that particular ecosystem.

The reduced bee population is an example of this. If bees didn't exist, the plants they pollinate might not survive, and the animals that eat those plants might not survive either. This means animals that eat those animals might also become endangered or even extinct. The balance of ecosystems can be affected by natural events, like floods, hurricanes, and changes in climate. It is also affected by the actions of humans.



Protecting Environments

We need to help protect environments from natural events through responsible actions, such as keeping the land free from garbage and reducing pollution in the atmosphere. We also need to stop natural habitats from being destroyed by actions that benefit humans but damage wildlife. There are many actions families and communities can do to help the environment. Learn more at: * e-udp.com/BJ6011

Did

You



Pesticides

Agriculture also causes a threat to ecosystems in another way. Chemicals, like pesticides, are sprayed on crops to kill insects. These chemicals act as poison and affect other species that are essential to maintaining a balanced ecosystem. They kill bees, for example, which help to pollinate plants and flowers. If bees disappear, so will more than half the produce we buy to survive. This is just one example of how our actions can have a negative effect on hundreds of other species, including humans.

Organic Farming

Organic farming uses biological pesticides, which are safer for plants, animals, and humans. Also, farmers grow crops in different areas each year, which is called crop rotation. This practice causes less damage to the soil and increases biodiversity. Organic farming does not make use of any genetically modified crops.

Deforestation

Deforestation is when large areas of forest are destroyed for new roads, urban areas, and agriculture. When this happens, animals lose their natural habitats and plants are destroyed, which results in forest ecosystems becoming imbalanced.

Reforestation

Forests maintain the balance of carbon dioxide and oxygen in Earth's atmosphere, so reforestation planting new trees and plants in areas where forests were destroyed—is important if we want to restore the natural balance in ecosystems.



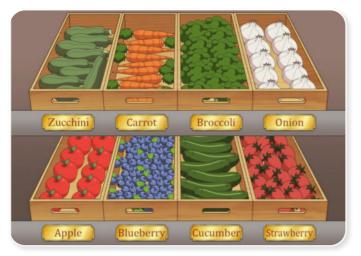
In groups, discuss the questions.

- 1. What types of ecosystems exist where you live?
- 2. What are some of the issues that put those ecosystems at risk?



A Look and guess what the pictures show. Then listen and check. (?)

Do the online activity.





B In groups, discuss the questions about the audio in activity A.

- 1. What human factors affect bees?
- 2. How can we change agricultural methods to protect bees?
- 3. How does climate change affect bees and the plants they pollinate?
- 4. What can we do to help reduce the impact of climate change?

C Look and label other effects humans have on the environment.







- Waste disposal pollutes the soil and water, and it can be dangerous to birds and other animals.
- Burning fossil fuels uses up natural resources and pollutes the atmosphere.

Overfishing can cause the extinction of sea animals and change the biodiversity in oceans by interfering with the food chain.

 In pairs, choose one of the issues and discuss actions that can restore balance to the ecosystem.



21st Century Skills

Collaboration

River cleanup

Look at the list of problems that affect a local river. Then, in pairs, discuss the questions.

- Trash on the riverbank goes into the river when it rains.
- Waste from factories flows directly into the river.
- Signs about not littering have fallen down.
- People dump their garbage in the river.
- Fish are dying because of algae growing on the surface of the water.
- a. How do weather conditions affect the river?
- **b.** How much of the pollution in the river is caused by tourists?
- c. What other types of waste pollute the river?
- d. What can you do to stop people from
- polluting the river in the future? e. What immediate action can you take?



Join another pair and discuss the steps you will take to clean up the river. Decide how you will work together to raise awareness in the community and keep the river clean.



I think the first thing we need to do is...

yes, I can fix ^{the signs} while...



In your new group, present your ideas to the rest of the class. Try to raise awareness of the problems affecting the wildlife and how others in the community can help the ecosystem.



We want to produce leaflets which people can help us distribute. *Local Hero* is a drama story. Drama includes fictional characters who face difficult and often dangerous situations. Go through the story in your *Reader* and find examples of dramatic elements.





A Character, setting, and plot are important elements in a drama story. Classify the elements. Write C (character), S (setting), or P (plot).

- 1. The fields looked like lakes, and cows were standing under trees for shelter.
- 2. The car went into the water with the road and started to sink.
- 3. Jack's younger sisters were not laughing anymore.
- 4. The town had a new hero. _
- 5. As they were driving down the long, winding road, it started to rain.____
- 6. Jack Osbourne lived in the small town of Roma in Queensland, Australia._

B The characters in a drama story need to resolve conflicts to reach a resolution. Match the sentences to describe how the characters reacted in the situations below.

1. Jack's sisters felt nervous because of the storm.

- 2. The fields began to flood.
- 3. The water level rose around the family's car.
- 4. Jack's sister was stuck in the back of the car.

In pairs, discuss the question.

to prevent more floods?

What actions could be taken to make the roads safer

5. The water level reached Jack's neck.

Jack's dad slowed the car down to twenty miles per hour.

Jack carried her to the front.

Jack stayed calm and released the seatbelts.

Jack's mom told them not to worry and that they would be home soon.

Jack pulled himself to the front of the car and swam out of the window.

C Using the story and your own ideas, number the events in order to show the causes and effects of flooding.

____ Water levels rise.

____ People drop trash.

- Land is flooded.
- ____ Heavy rains begin.
- ___ Roads collapse.
- ____ Riverbanks fall down.



, Do you think flooding is becoming more common around the world? A Number the pictures in the correct order. Use your *Reader* to help you.



B Complete the sentences using the words and phrases in the box to show the sequence of events.

As the water rose	At the same time	Finally	First	Suddenly	Then
1	, the sky went dark	and it start	ed to ra	in.	
2	, the rain began to [.]	fall more h	eavily, ar	nd Jack saw a	nimals looking for
shelter under the t	rees.				
3	, they heard a loud	crash as pa	art of the	e road collaps	ed.
4	, the car began to f	ill with wate	er.		

- 5. _____, Jack saw plastic bottles and empty food wrappers floating down the river.
- 6. _____, Jack escaped from the car before it disappeared.

C In groups, discuss the questions.

- 1. How can flooding damage an ecosystem?
- 2. How can people work together to prevent flooding?



Yes, people should protect riverbanks by...



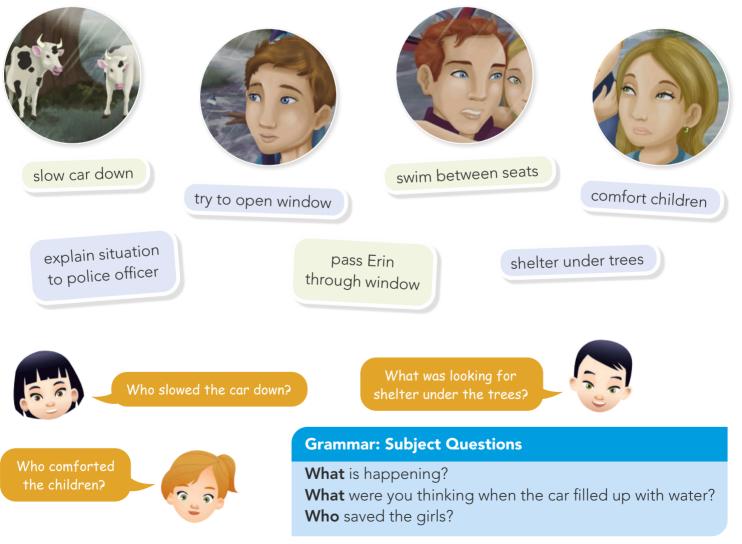
A Find these questions in your *Reader* and complete them.

- 1. ______ wants hot chocolate when we get home?
- **2.** _____ was that?
- 3. _____ saved the girls?

B Underline the correct option to complete each question.

- 1. Who drove / did drive the family home?
- 2. Who / What had collapsed into the water?
- 3. Who **pass** / **passed** Erin to her mother?
- 4. Who was / did screaming at Jack to hurry?
- 5. Where / Who collapsed at the side of the road?
- 6. What / How illuminated the river?
- 7. Who take / took the family to the hospital?
- 8. Who are / was proud of Jack?

${f C}$ In pairs, use the prompts to ask and answer questions about the pictures.



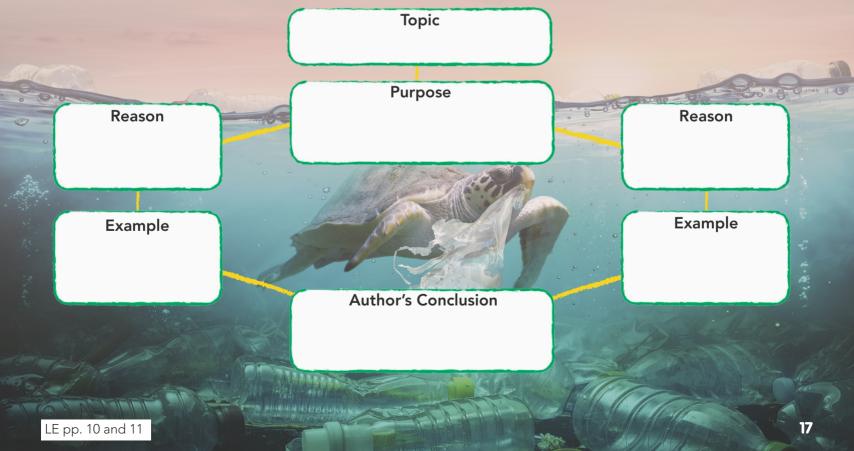


Writing

1 Read the opinion essay.



2 Complete the graphic organizer using the information from the essay.



A In pairs, discuss which photos in the magazine article below relate to a positive situation and which relate to a negative one.

group of sixth-grade students want their school to be a place they can be proud of. That's why they started an eco-project to clean up the school.

B Listen and write what students have done as part of their school eco-project. $\begin{pmatrix} 04 \\ 0 \end{pmatrix}$

School!

Sixth-Graders

They did the following:

Clean Up

In groups, discuss the questions.

- 1. Why has a lot of the wildlife left the area?
- 2. How do you think the flood affected plants and animals around the school?

C In groups, discuss what your school could do to help the environment.





What more could the children eco-project?



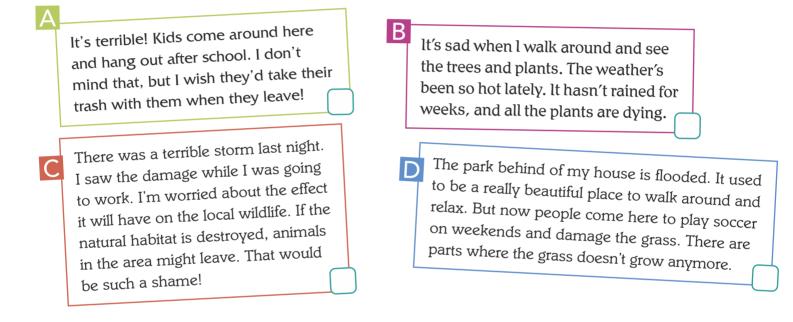


Watch a presentation on how to maintain a balanced ecosystem.

A Look and describe the problems in the pictures.

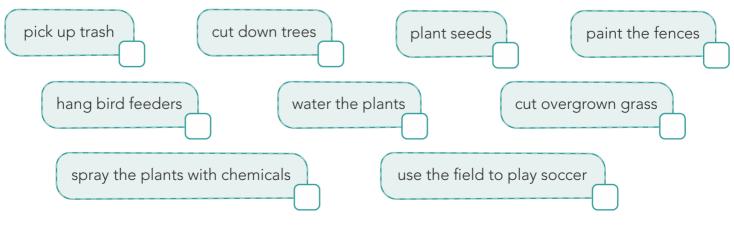


B Read the descriptions and match them with the photos in activity A.



• In groups, discuss possible solutions for the problems.

C Mark (✓) the actions you could do to help maintain a healthy environment. Then discuss your plans with a partner.



A Complete the questions.



- 1. _____ had the idea to start the project?
- 2. What _____ you find?
- 3. What ______ the project involve?
- 4. _____ was responsible for getting those items?

B Match the questions and answers.

- 1. What caused the damage to the trees?
- 2. What did Jenny do to help?
- 3. Who fixed the fence?
- 4. How did you help the bird?

C Write questions for the answers.

1. _____

Juan did. He helped me to put a fence around the area.

2. _____

We separated the trash into different recycling containers.

3. _____

The chemicals that they sprayed on the plants caused the damage.

4. _____

Geese and ducks swim in the river.

 Write questions about a recent group project. Then ask and answer them in pairs.



I put it back in its nest.

She watered the plants.

the men from the local conservation group

the storm that happened on the weekend

Grammar: Subject and Object Questions

Who <u>had</u> the idea to start the project? What <u>did</u> you <u>find</u>?



Speaking

1 Listen to an interview about a balanced environment. Mark (✓) what lvette thinks is the biggest problem for the environment. ⁰⁵

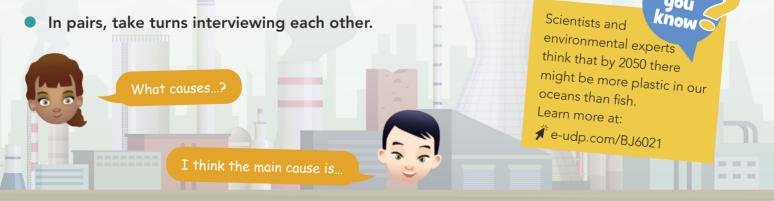


2 Complete the questions using the phrases in the box.

3

LE p. 14





SEE THE CHANGE

Leaflet and Activity: Plant a Tree Day



Discuss where you want to plant trees at your school. Think about the type of soil you need, the space that may be available, and who you need to speak to for permission to plant the trees.



In groups, discuss the findings of your research. Decide what equipment you will need to plant the trees and what other important factors you need to consider on the day, such as the weather, what the volunteers need to bring, and how you will organize the volunteers' jobs.



Present your leaflet to the class and get volunteers. Make them aware of the importance of what they are going to do and how it will help the school and the local ecosystem.



On the day, organize the area where you are going to plant the trees in advance. Make sure that you have everything you need, including all the necessary tools. Do this before the volunteers arrive.



Research the topic. Use the internet to find out about the equipment you will need. Speak to people who work at your school, groundskeepers for example, and ask them for advice about what you will need and what you should consider on the day you plant your trees.



tep

Think of ways to find volunteers for your Plant a Tree Day. Discuss the best way to draw people's attention to the importance of what you will be doing. Make a leaflet with the details and requirements for volunteers, as discussed in your group, so that volunteers will have all the information they will need. Remember to advise people to bring sunscreen and to wear suitable clothing and gloves.

Organize your volunteers. Split them into teams and assign a

group member to supervise and help each team. Encourage teamwork, so that one team digs holes while another team carries the soil, and another team plants and then waters the trees.



After planting the trees, check the quality of the work. Make sure the area looks attractive and that everything has been cleaned up.



Unit 2 How can we work together to solve problems?

Community Life



Living in a society means living together with a lot of different people. To make a society work, everybody needs to be involved. That means working together and helping each other. How can people contribute to society? Do you participate in activities in your community?

Watch the video to learn more about participating in society.

n a society, people live in organized communities, with laws, traditions, and values. Some people need more help than others within a society, and we all have a responsibility to help where we can. Everyone can contribute to society. Here's how!

 Toggetage

 Volunteers give their time

 for free to help out with a

 project or cause.

 It could be something like assisting

 families who have lost their homes

 after a natural disaster, like a hurricane or

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Volunteering

Living

and Working



A community organization is a group of people who work together to improve conditions in the community. There can be many different types of organizations in a community. They can be parent-teacher groups, sports clubs, community workshops, neighborhood associations, or support groups. Community organizations often organize local events to tell people about important issues, or to help raise money for a cause. These events are a good way to improve relationships in the community by bringing people together.

Political parties make important decisions in a society. The members of a political party (politicians) work together to decide what to do in many different areas. Every person over 18 can say who they want to be in charge. This is called a democratic voting system.

Voting is important in a democratic society, even if you don't agree with everything a party says. If you don't vote, the party you don't agree with at all might be the one making the rules.

Did You know

Almost anyone can apply to become a member of the government in the United Kingdom, as long as they're over 18, have 10 official supporters, and have £500 to pay the registration fee. People who live in the same apartment block, street, or neighborhood may experience problems that affect them all. Organizing a meeting between neighbors is a good way to solve these problems. If they can't solve these problems themselves, local authorities need to get involved. When this happens, neighbors have a stronger case if they work together as a group with the same aim.

Neighbor Meetings

Voting

In groups, discuss the questions.

- 1. What problems are there in your community?
- 2. What have community organizations done where you live?
- 3. What can you do to help?