Student Book Audio Script

TR: 15 1 **Listen and read.** See Student Book pp. 26–27.

TR: 16 2 **Learn new words.** **amount** / After a disaster, large amounts of water and food must be delivered to the scene. **the big picture** / You are one person, but you can make a difference in the big picture. **crisis** / Hurricanes can cause a major crisis. **crowdsourcing** / Crowdsourcing information and advice is a good way to use technology. **data** / Analyzing data can help us to better understand what's happening. **evidence** / Crisis mapping is evidence that anyone can help those in need. **expand** / Technology allows people to expand their knowledge. **generate** / Computers can analyze information and generate solutions. **humanitarian** / Humanitarians want to help other people. **measure** / It's difficult to measure the level of destruction of a large earthquake. **monitor** / Rescuers can use technology to monitor conditions after a disaster. **process** / Computers can process information more quickly than humans. **upload** / When you upload a photo to the Internet, anyone can see it.

TR: 17 4 Patrick Meier uses crisis maps and social media to organize information and give the big picture on what's happening at a disaster site. However scientists are using other forms of technology to collect data, to generate solutions, and to help people in need. Some scientists are developing microbots to explore where humans cannot easily go, such as outer space or inside the human body. Microbots are simple machines, but when released in large amounts, they can accomplish a lot. If sent into a disaster area, scientists could monitor their movements and measure their progress while they search for evidence of life. If one microbot gets lost, the mission could still continue.

TR: 18 5 In times of a disaster, collaboration between people on the ground and online is very important. People can exchange information to provide online updates, which can be sent to rescuers. With this information, rescue workers can better understand the situation and coordinate to provide quick and effective relief to the victims.

TR: 19 5 **Learn new words.** **collaboration** / In emergencies, collaboration among rescue workers is very important. **coordinate** / Technology helps workers coordinate their efforts. **relief** / Food, blankets, and water can provide relief to victims of disaster. **situation** / The earthquake has created a dangerous situation in the city. **update** / The latest update shows new information.

TR: 20 **Speaking Strategy** See Student Book p. 29.

TR: 21 7 **S1**: Hey John. Did you hear the terrible news about last week's earthquake? I want to help somehow. **S2**: Yeah, it is terrible. I would like to help, too. Do you have anything in mind? **S1**: What if we volunteered with a rescue organization? **S2**: Wouldn't it be best to wait until summer? Hey, I know . . . what if we became digital humanitarians? Then we could start now! **S1**: Great idea! Digital humanitarians look at photos and messages from disaster areas and evaluate them for crisis mappers, right? **S2**: Yeah, all we have to do to get started is join their email list. If we're serious about helping, that's a good place to start. Should we sign up then? **S1**: Sure, why not?

TR: 22 **Grammar** See Student Book p. 30.

TR: 23 11 Predictions Every year, the world's population is growing. And it seems we are experiencing bigger and more dangerous natural disasters. Some are the result of climate change. Others, like earthquakes and volcanoes, are happening simply because it's part of their natural cycle. This timeline shows some predictions that scientists have made for the future:

- By 2020, an 8.5 magnitude earthquake will have hit South America.
- In 2030, the world population will reach around 8.3 billion people. But thanks to new technologies, food supply will be up, and world hunger levels will be going down.
- By 2050, many regions in the world will have been flooded because of rising sea levels.
- Toward the end of the century, a massive asteroid will be entering the Earth's orbit.

Will these predictions become reality? And are we prepared if they do?

TR: 24 14 **Learn new words.** **cause** / He wants to give to a good cause, so he helps the homeless. **donate** / If you don't have money, you can donate your time. **fundraiser** / A bake sale is a great idea for a fundraiser. **network** / She joined a network of people who keep the streets clean. **volunteer** / You volunteer to help others online or in your community.

TR: 25 15 **S1**: Hey, have you thought about what kind of community service activity you'll do in order to graduate? **S2**: My teacher gave me a list of suggestions. If you want, we could do something together. **S1**: Great idea! Here's one: We could donate old toys to a children's hospital! I've got a whole bunch in my closet that I used to play with when I was little. **S2**: Yeah, but they shouldn't be too old or the hospital won't take them. Wouldn't it be better if we volunteer our time? We could clean up the beach or help put books back on the shelves at the library? **S1**: I like the beach idea. Nobody goes there anymore because it's so dirty. What if we talk to our friends and create a whole network of volunteers! We could even hold a fundraiser to pay for the cleaning supplies! **S2**: Sounds like a worthy cause. Let's do it!

TR: 26 19 **Learn new words.** **empower** / Role models can empower teens to make a difference. **engineer** / It is possible to engineer a new device using old parts. **face** / Today's young people face many challenging situations. **generation** / Many teens work to provide a better world for future generations. **innovation** / New innovations can improve the lives of many people.

TR: 27 20 **While you read.** See Student Book pp. 32–33.

TR: 28 **Grammar** See Student Book p. 36.

TR: 29 1 **Express Yourself** See Student Book pp. 40–41.

S1: An earthquake hit Nepal today. Many people are still trapped where rescue teams are unable to reach them. **S2**: I must save them! **S1**: When Crisis Crusher arrives in Kathmandu, he starts lifting crumbling buildings to free those who are trapped. But he still hears cries for help in the distance. **S3**: Help! **S2**: How will I reach everyone in time? How will I know where they are? **S4**: Meanwhile, in Tokyo, a girl begins receiving tweets from people in Nepal. She collects their locations and shares the information. **S5**: Time to start mapping! **S4**: When CrisisMapperMC receives the information, he starts creating a crisis map. **S6**: Here you go, Crisis Crusher: your next rescue. **S4**: With the latest updates, Crisis Crusher is ready to rescue.