**3. VOCABULARY 1 PRACTICE**

1. obvious
2. take over
3. automated
4. reject
5. predictable
6. stand by
7. layer
8. clever

**4. LISTENING COMPREHENSION**

**1.** The guest works with artificial intelligence in farming .  
**2.** Artificial intelligence in agriculture can be better for the environment .  
**3.** Robots can help control weeds by using electricity .  
**4.** Other robots collect data to help farmers.  
**5.** Farmers can use artificial intelligence to help predict weather .  
**6.** Farners in Tanzania use a phone app to find out what kind of weeds they have.  
**7.** People started using chemicals on food in the 1950s .  
**8.** An example of a food that grows really fast is strawberries .

**5. LISTENING SKILL Inferring a speaker's attitude**

1. nervous
2. surprised
3. angry
4. nervous

**6. CRITICAL THINKING VIDEO Justifying claims**

1. a statement that you consider to be true
2. giving a good reason for something
3. giving researched information from expert sources
4. It uses well known and researched information.
5. The person saying it strongly feels that traveling in space is dangerous.
6. NASA is currently developing AI that will help humans navigate in space.
7. According to a recent study, the cost of adding AI to household objects is still very expensive for consumers.
8. justification with principle and justification with fact

**8. VOCABULARY 2 PRACTICE**

1. in this case
2. genius
3. criterion
4. celebrity
5. keep up with
6. take sides
7. are supposed to
8. program

**9. VOCABULARY SKILL Using the dictionary**

|  |  |
| --- | --- |
| 1. What a mess! Please clean up that **spill**. | (n.) liquid that was poured out by accident |
| 2. That **plant**pollutes the water with chemicals. | (n.) a factory |
| 3. Tankers **spill**oil into the ocean every year. | (v.) to cause a liquid to pour out of its container |
| 4. She **planted**a kiss on her daughter's forehead. | (v.) to put in a certain position |
| 5. He didn't want to tell me, but finally, he **spilled**his secret. | (v.) to tell private information to someone |
| 6. The newspaper used a **plant** to get the story. | (n.) a spy |
| 7. She took a bad **spill**and broke her arm. | (n.) a fall from a bicycle or a horse |
| 8. He**planted** the stolen ring in my coat, so I was blamed. | (v.) to hide something for a secret purpose |

**10. GRAMMAR 1 Gerunds and infinitives**

|  |  |  |
| --- | --- | --- |
| **Verbs followed only by gerunds** | **Verbs followed only by infinitives** | **Verbs followed by either a gerund or an infinitive** |
| * admit * discuss * dislike * enjoy * finish | * agree * decide * hope * learn * plan | * begin * like * love * hate * prefer |

**11. GRAMMAR EXPANSION Gerunds and infinitives**

1. to close
2. to turn off
3. exercising
4. getting
5. to buy
6. swimming
7. to give
8. walking
9. to water
10. to call

**12. PRONUNCIATION Stress in important words**

1. had been living
2. had been cooking
3. had been waiting
4. had been working
5. had been driving
6. had been walking
7. had been studying
8. had been raining
9. had been getting
10. had been increasing

**13. SPEAKING SKILL Leading a group discussion**

**Leader:** Alright. Let's get started. Today we're going to discuss artificial intelligence in caregiving. First of all, what are the advantages of using robots as caregivers? Gina, what do you think?

**Gina:** Well, I think there are a lot of things a robot can do to help elderly or disabled people. It might help people live more independent lives.  
**Leader:**  What's your opinion, Lisa?  
**Lisa:** Robots can do many things that a human caretaker might do, like get things from the kitchen or clean the house.  
**Leader:** Good points. Karl, do you have anything to add?

**Karl:** I don't know. My grandfather is pretty old, and he still runs marathons.  
**Mark:** Really? How much does he run a week?  
**Leader:**  I think we need to return to the topic. Mark, do you think using robots to care for people is a good thing or a bad thing?  
**Mark:** Well, robots might be able to do some things, but I think human caretakers make much better companions.  
**Leader:** Great. Okay, to sum up, we've talked about some good reasons to use robots as caretakers but also some reasons why humans might be better.

**14. NOTE-TAKING SKILL Building an outline to take notes on**

|  |  |
| --- | --- |
| 1. | **Small farming robots** |
| 2. | like tractors, with changing parts to plant and weed |
| 3. | collect information in the field |
| 4. | **Other forms of AI** |
| 5. | make factors like weather more predictable |
| 6. | phone apps to identify weeds |

**17. TRACK YOUR SUCCESS Vocabulary review**

|  |  |  |
| --- | --- | --- |
| **﻿ ﻿Nouns** | **﻿﻿﻿Verbs and verb phrases** | **﻿Adjectives** |
| * genius * criterion * companion * celebrity * layer | * stand by * reject * figure out * take over * take sides | * clever * obvious * automated * predictable * fair |