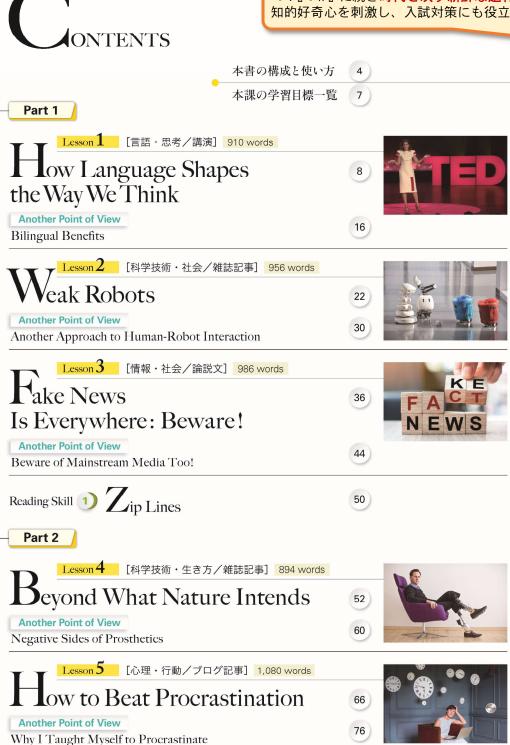
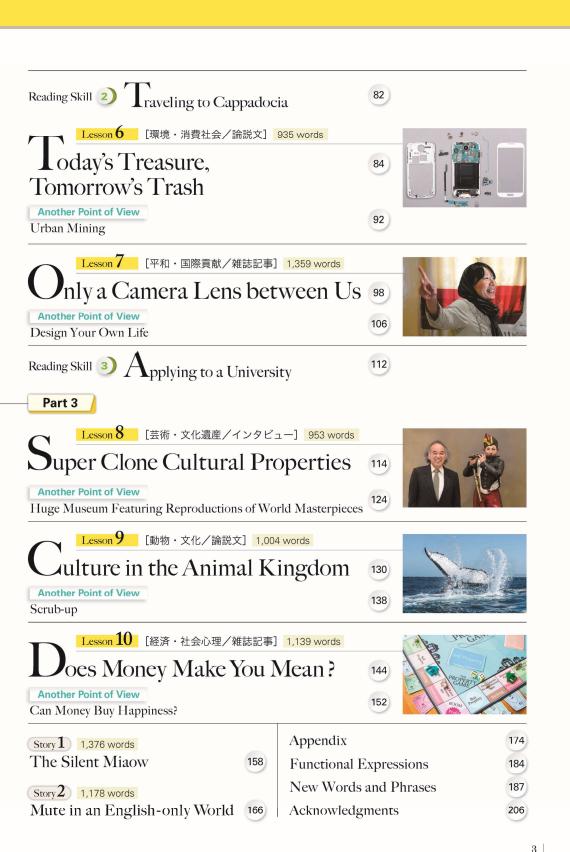
『I』『II』に続き時代を映す新鮮な題材で、生徒の 知的好奇心を刺激し、入試対策にも役立ちます。









各レッスンでは、リスニング・動画による導入からまとめの活動まで、4技能の授業の流れがスムーズになるよう、ページ構成やタスクを配置しています。

į

各レッスン末には、そのレッスンで学んだテーマや 内容に関連する語彙・表現をまとめた「Language Resources」が配置されています。

Language Resources

16) Words in the Box-

本課のテーマに関連する語や表 現を、意味のグループに分類して 整理します。言語活動の際にも適 宜参照してください。

17) Sentence Activators

本課の本文から、英語で発信す るために役立つ表現を取り上げ、 さまざまな表現のパターンを学習 します (本文ページの 😈 マーク と連動)。

課間・巻末

Reading Skill 1, 2, 3 いろいろな種類の英文を読むためのスキルを学びます。

New Words and Phrases

各課の新出語や重要表現のリストです。出現順に掲載しています。

Appendix

各課のWrap It Up! (C) 、Addressing the Issue (Step 4) の解答例を 掲載しています。

Functional Expressions

言語活動で役立つ表現のリストです。

記号・略号

発音記号は標準的なアメリカ発音を採用。

- S=主語、V=動詞、C=補語、O=目的語
- n.=名詞、v.=動詞、a.=形容詞、adv.=副詞
- e.g.=例 cf.=比較 [参照] しなさい
- ()=省略可能、 () =補足説明、 [] =言い換え可能
- FE = Functional Expressions

アイコン



話す (発表)



話す(やり取り)









※本書では日本人の人名を〈姓名〉の順で示すことを基本としていますが、 本人の意志により、〈名姓〉と表記している場合もあります。

※二次元コードには、以下のURLからもアクセスできます。 https://tbqr.sanseido-publ.co.jp/06-crown-ec3/contents/



本課の学習目標一覧

1年間の学習事項を提示し、学 習の見通しを立てられます。

			a sa diamental esta esta esta e
	Reading	Listening	Speaking(やり取り・発表)/Writing
Lesson	[講演] 言語が思考にもたら す影響についての文章を読 む。	言語が思考に影響をもたら すかどうかについての会話 を聞き取る。	■講演で紹介された事例について話し合う。●Boroditsky氏へ向けて、コメントシートに感想や意見を書く。
Lesson 2	[雑誌記事] 手助けを必要とする「〈弱い〉ロボット」について読む。	ロボットについて意見を交 わす二人の会話を聞き取 る。	「〈弱い〉ロボット」の例と考え方について 話し合う。●ロボットとの未来について、短い物語を 創作する。
Lesson 3	[論説文] フェイクニュース の危険性と対処法について 読む。	あるニュースが誤情報かど うかについての会話を聞き 取る。	●フェイクニュースの例や、SNSの功罪について話し合う。●フェイクニュースへの対応について、友人へアドバイスする。
Lesson 4	[雑誌記事]最先端義足の 開発者Hugh Herr氏の活 動について読む。	最先端義足の未来について の会話を聞き取る。	●困難を克服した有名人について話し合う。●手に入れたい超常能力について話し合う。●読んだ記事について、投書欄へ投稿する 文章を書く。
Lesson 5	[プログ記事]「先延ばし 癖」の克服方法について読 む。	「先延ばし癖」を話題とする 会話を聞き取る。	●自分が先延ばししがちかどうかについて 話し合う。●「先延ばし癖」への対処法をテーマとして、学校新聞の記事を書く。
Lesson 6	[論説文] 家電ゴミ問題、 企業戦略と消費者運動に ついて読む。	環境にやさしい消費行動に ついての会話を聞き取る。	●家電の修理や廃棄について話し合う。●家電ゴミ問題への対応方法について、自 分の考えを述べる。
Lesson 7	[雑誌記事] 武装解除に携 わる瀬谷ルミ子氏の活動に ついて読む。	瀬谷氏の生き方とメッセージ についての会話を聞き取る。	●自分の人生に影響を与えたものについて話し合う。●紛争を無くすことが可能かどうか話し合う。●世界平和のために何ができるか、考えを述べる。
Lesson 8	[インタビュー]スーパー クローン文化財について読 む。	美術品の補修と複製につい ての会話を聞き取る。	●どのクローン文化財を見たいか、どんな要素を付加したいかについて話し合う。●美術館のキュレーターとして、どのような複製展示を企画したいのか述べる。
Lesson 9	[論説文] 動物の文化について論じる文章を読む。	動物の文化についての会話 を聞き取る。	●文化の考え方と動物の文化の例について話し合う。●動物の文化の定義について、自分の考えを述べる。
Lesson 10	[雑誌記事]裕福さと思い やりの関係を扱った研究に ついて読む。	裕福さと思いやりの関係を 示す研究についての会話を 聞き取る。	●裕福さと思いやりの関係について話し合う。●経済的不平等の解消のために何ができるかについて述べる。

eak Robots

"We're fascinated with robots because they are reflections of ourselves."

Get Ready



Weak Robots

Watch the video clip and answer the questions.

- 1. The speaker sees a. only a bright future. b. only a frightening future. c. a future that is both bright and frightening.
- 2. Professor Okada is working on robots that a. work with people. b. work in place of people. c. control people.

本課の題材について、リスニングで導入します。動画アイコ ン付きの課では**動画資料**も提供します(QRコードから)。

Part 1 Lesson



課全体のテーマとなる問いです。課末

ssue in Focus

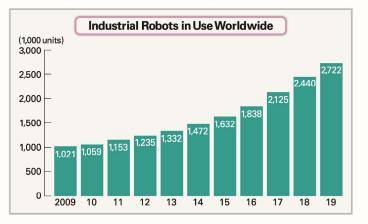
What do you think the relationship between humans and robots will be in the future?

Check the Facts

本課の題材に関する事実やデータを、 クイズ形式で確認します。

Make a guess and see if you can get the facts right.

- 1 The word robot comes from a Slavic word meaning "(master / servant)."
- 2 The number of industrial robots in use worldwide is 2.7 (million / billion).
- **3** (China / The US) is the world's largest user of industrial robots.
- 4 About (2/20) percent of the world's vacuum cleaners are robots.
- 5 Japan will automate (7/27)% of existing work tasks by 2030.
- 6 It is estimated that more than 9 (thousand/million) communication robots will be introduced in Japan by 2030.
- 7 In Japan, finding workers can be a challenge because almost a (fifth / third) of the population are aged 65 or above.



Some robots can communicate with humans. What do you think about this? Do you want one of these robots at home?

22

Lesson 2

We expect robots to work for us, performing a range of services. They are our servants. After all, the word *robot* comes from *robota*, a Slavic word meaning "slave" or "servant." But is it possible for us to form a more cooperative relationship with robots?

hen we think about robot technology, we often think about autonomous robots which can work independently of human beings. Space probes which wander across the surface of Mars. Delivery robots that drop packages right on our doorsteps. Our vision of the future is a vision of autonomous robots driving our cars, cleaning our houses, cooking our meals. They might be called "strong" robots, in the sense that they can work without human help.

While we wait for that future, we make do with "weak" robots like the little cleaning robot that sweeps our floors. The little guy is cute but not very smart. He's always getting tangled up in learning clear to help him clean the room without getting into trouble, you might start by picking up things which could be in his way.

The room gets cleaned up. But when you ask: "Who cleaned this room?" you make an interesting discovery. The little robot ²⁰ did not clean the room by itself. You did not clean the room by yourself. The two of you did it together. The robot cleverly managed to get your cooperation in cleaning the room. What's interesting about the little cleaning robot is that, for all his weakness, he has become part of your family.

4

7. wander across

= move around

11. in the sense that \sim

13. make do with ~≒ manage by using ~

15. get tangled up in $\sim =$ get caught up in \sim

18. in one's way

24. for all ≒ despite

難易度・内容を考慮した自然な英文による本文で、 高校英語の総まとめの学習を行えます。

Weak Robots

Many robot engineers find dependence on humans to be a 2 defect. They want to make weak robots stronger, which is to say, more independent of people.

However, the little episode above suggests that weak robots might help create a positive relationship between robots and humans. In fact, Okada Michio, a professor at Toyohashi University of Technology, sees weakness as a virtue. He is working on robots which are designed *not* to work without human interaction.

Take a wastebasket called *Sociable Trash Box* (STB), for example. Its job is to see that trash gets picked up. This weak robot approaches the trash and circles around it helplessly, waiting for someone's assistance. When people come along and see the robot moving its body as if asking for help, they usually pick up the trash and place it in the basket. STB bows, as if to say, "Thanks!"





Sociable Trash Box

Q4 What do people usually do when they see STB circle around the trash helplessly?

Professor Okada Michio and his weak robots

Q-3 What are "weak" robots?

Q-1 In what sense does the author say some robots are "strong"?

Q-2 How can you help the cleaning robot?

SO

Which of the following agrees with the author's opinion?

a. The cleaning robots frequently need repairing.

b. Robots should be able to work without human help.c. The weakness of the cleaning robot is not necessarily a bad thing.

本文の内容をより深く考える問い(Stop & Think)を配置。Part 1では考え方のヒントとなるよう、三択問題の形になっています。



2

本文中のSマークは、課末のSentence Activatorsと連動しています。

45. draw out ~ ≒ bring out ~ In the conventional way of thinking, a room cleaner that gets tangled up in a cord, or a machine that cannot pick up the trash by itself, is weak or maybe defective. But from Okada's point of view, this weakness draws out our cooperative spirit. Far from 45 being dehumanizing, working with a robot like STB can make us more human.



Talking to a smartphone

62. care for \sim \rightleftharpoons look after \sim

"OK," you may say, "but how about the human-AI interactions we already enjoy? I can talk to my smartphone. I ask her a question. She answers. We communicate." But is that really 50 communication? How often does your smartphone call you up?

Okada wants us to think of a more intimate human-robot relationship. Real communication is not a matter of *me* talking to *you* and *you* talking to *me*, but rather a case of *us* communicating with one another. Is this sort of communication possible between bumans and robots? Perhaps.

Think of babies. Babies cry for milk. They show their satisfaction by becoming quiet. Parents learn to listen to the way their baby cries and watch their baby's reactions. Although no words are exchanged, a real form of communication exists 60 between them.

Raising an infant involves interaction. The baby is cared for and gets the milk that it wants. The parents experience joy in looking after the child. The baby's helplessness and weakness draw out the parents' love and support. Could this natural form 65

- Q-5 Which type of communication does "talking to a smartphone" belong to, "me talking to you" or "us communicating with one another"?
- Q-6 What draws out the parents' love and support?



Okada sees the weakness of some robots as a virtue because

- a. it empowers humans.
- b. it draws out our cooperative spirit.
- c. it makes the robot independent of people.

of communication also take place between humans and robots? Okada is looking at how such a coexistence 70 might occur.

In order to explore this possibility, Okada and his colleague made *Mako-no-te*, a small one-armed robot



you cues, adjusting the direction and speed by pulling your hand with its arm. You infer the robot's intentions. Apparently, just walking with the robot helps you build an interpersonal relationship with it. A kind of natural form of communication seems to be taking place between the human and the robot.

Okada's concept of weak robots is not just of theoretical 4 interest; it may have a practical implication. One of the main concerns in present-day Japan is the rapid growth of its aging population, an increase which means more and more care workers are needed. In reality, however, caregivers are in desperately short supply. As part of the solution to the problem, the government and private sectors are introducing care robots in nursing homes.

75. give \sim a cue \rightleftharpoons give \sim a sign

英語による言い換え(<mark>英英</mark>)の 形で傍注を掲載しています。

Q-7 What are the government and private sectors introducing in nursing homes?



Which of the following is NOT true about *Mako-no-te*?

- a. It gives you cues so that you can infer its intentions.
- b. It makes you feel safe when you walk alone after dark.
- c. It helps you build an interpersonal relationship with it.

本文内容の理解を、思考を伴う問い も交えながら段階的に行います。

D.本文内容に関する自己表現活動

A.本文の主題の確認

B.本文から推論させる問い

C.リテリングないし要約

Lesson



A caregiver with a backsupport device

101. point the way to ~ ≒ lead to ~

Here are a few examples of robots at work. One is a backsupport device which is designed to assist caregivers when they 90 lift and move patients. Another type of robot provides services such as bringing tea. These robots satisfy practical needs, easing the burden of caregivers.

But there are other types of robots whose main function is to provide companionship and make the environment more friendly 95 and livable. A robot baby seal is an example. Not only does it give comfort to the elderly, but it also gives a sense of security. Perhaps it is in this area that Okada's weak robots have a great potential for application.

Professor Okada and his team want us to think of robots as 100 our companions. They point the way to a future in which people and robots can exist in harmony, learn to treat one another with respect, and, just possibly, enjoy one another's company.



A robot bringing tea



Robot baby seals giving comfort to the elderly

生徒の興味・関心を高め、リテリング活動など につなげられる豊富な写真を掲載しています。

Q-8 What robot is mentioned as an example of companion robots?



Okada and his team see a future where

- a. robots serve all human needs.
- b. people don't need help from robots.
- c. people and robots exist in harmony.

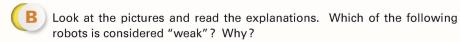




Professor Okada's robots are weak in the sense that

1. they cannot beat humans in board games.

- 2. they need human help to complete their tasks.
- 3. they do not have enough power to carry heavy packages.
- 4. they are so fragile that they need to be handled with care.









- (1) A robot which uses the elevator to deliver products to customers.
- (2) A robot remotely controlled by shop staff to stock shelves with products.
- (3) A cute robot which gazes at you, blinks its eyes, and wags its tail.



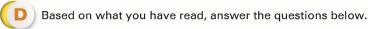
Summarize the main text. Here are some key words and phrases to help you get started.





Key Words & Phrases

independent, human interaction, cooperative relationship, the elderly







- 1. We have seen several examples of weak robots in this lesson. Which one interests you the most?
- 2. Okada says that "weakness is a virtue." What do you think your greatest weakness is? Can it also be viewed as your strength?

FE II, III, IV, V (See pp.184-186)

発信に使える表現をまとめた巻末付録「Functional **Expressions」へのリンク**を掲載しています。

Lesson

nother Point of View



Another Approach to **Human-Robot Interaction**

題材に関連した英文Another Point of Viewを配置。ウェブサイト、メッセー ジ、講演など多様なテキストタイプに 触れられます。教師用指導書には内容 確認問題も収録しています。

Professor Okada studies human-robot interaction by creating weak robots. But there are other approaches to this kind of study. Professor Ishiguro at Osaka University has been working on androids, or humanlike robots.

Androids used to belong in science-5 fiction movies, but now we come across them in every corner of our lives: in hotels, shopping malls, museums, and even

A play called Sayonara is going on in 10 a small theater. Two women actors are talking to each other. The people in the theater know that one of the actors is an android which is remotely controlled by another actor. It speaks with the voice of 15 a real woman and its movements are humanlike.



When the play starts, the people in the theater are all eyes on the movement of the android, but as the play goes on, they forget that one of the actors is an 20 android. The android is so humanlike that they accept it as a real actor by the end of the play.

The android in Sayonara was created by Ishiguro Hiroshi, a robotics researcher 25 known for his androids. He says that there are two steps in creating androids which will look fully human. First, you have to capture typical characteristics of humans—their expressions and body 30 movements. Second, you need remotecontrol machines to transfer human speech and movements to the android. Ishiguro believes that this will lead to androids that look and speak like human 35 beings.

Ishiguro has created many androids of famous people, including Natsume Soseki, Shibusawa Eiichi, Katsura Beicho, Matsuko Deluxe, and others.



Ishiguro even made a copy of himself, which he named Geminoid HI. It speaks with his voice. When Ishiguro tilts his head, Geminoid HI tilts its head too. 45 Geminoid HI speaks and behaves as if it

were Ishiguro himself.

The android resembles Ishiguro so much that he sends it to conferences abroad instead of attending the 50 conferences himself. He stays in Japan and controls Geminoid HI remotely through his computer. When the android speaks, people actually feel that Ishiguro is there in person.

Robotic technology is so advanced that the borderline between humans and androids is gradually disappearing. But not everyone feels at ease with androids. When androids seem almost human but are not quite human, many people feel 60 uneasy. Some people say that androids are "creepy." This creepiness is sometimes called the "uncanny valley."

Ishiguro is now working hard to cross over this valley. Before overcoming the 65 creepiness, however, he needs to ask various questions: How do we express emotions? How do the facial muscles react to emotions? How often and when do we blink? What kind of gestures, both 70 voluntary and involuntary, do we use when communicating with others? These questions will lead to a better understanding of human feelings and behavior, which in turn will help Ishiguro create a 75 more humanlike android. In the end, the goal of his project is to discover what it means to be human.

自分の考えや調べたことを発表したり、本文内容か ら類推したりする活動「Your Reaction」を配置。 ペアやグループで行うことも可能です。









- 1. If you had an android which looked exactly like you, what would you want it to do?
- 2. Do you think you can make friends with an android?

FE II, III, IV, V (See pp.184-186)

Lesson





扉ページの問いを再掲。順を追 って答えを考えていきます。

ssue in Focus

What do you think the relationship between humans and robots will be in the future?

Step	Listen to the dialog,	and write "	T" if the	statement	is true	and	"F"	if it is	s
1	false.								

- 1. Yumi met Pepper and was fascinated by its cuteness.
- 2. Jack wants robots to look more like humans.
- 3. Professor Okada is now working on a self-driving car.

Step Listen to the dialog again and answer the following questions.



- 1. Geminoid made Jack and Yumi feel
 - a. sad.
 - b. angry.
 - c. happy.
 - d. uneasy.
- 2. Jack likes Mako-no-te because
 - a. it is autonomous.
 - b. it looks like a human.
 - c. it works with a human.
 - d. it is Professor Okada's invention.

Step Fill in the blanks in the script while listening to the dialog one last time.





Step Read the Issue in Focus and create a short story about a future with robots.



FE III, IV, V (See pp.185-186)

Weak Robots

Jack : 3 (_

That's an awesome idea.

Yumi: It really changes your vision of the future.

Script Be sure to cover this page while working on steps 1 and 2.



_) While the whole world is trying to

Yumi:	Robots are everywhere these days. I just came from the bank where I met	
T 1	Guess who!	
Jack:	Pepper!	
Yumi:	Then I went to a travel agency and met Guess Who!	
Jack:	Pepper again.	5
Yumi:	Pepper and I are getting to be friends. He's kind of cute. I wonder if he's got a	
	girlfriend.	
Jack:	Careful, Yumi. You're entering the uncanny valley.	
Yumi:	What's this "uncanny valley"?	
Jack:	Don't you remember Ishiguro's Geminoid?	10
Yumi:	Oh yeah, sure. It's an exact copy of Ishiguro himself.	
Jack:	He's trying to make robots that are exactly like real people. But somehow they	
	make you feel kind of uneasy.	
Yumi:	Actually, I saw Geminoid once on TV.	
Jack:	1 ()	15
Yumi:	A little uneasy.	
Jack:	To tell the truth, I want robots to look like robots and people to look like people.	
Yumi:	So I guess you like the "weak robots" we read about.	
Jack:	Absolutely. Professor Okada's Mako-no-te doesn't even try to look human.	
	2 () The only thing it does is walk along	20
	beside you and hold your hand. That's the kind of robot I like.	
Yumi:	You make ${\it Mako-no-te}$ sound like a toy. But Professor Okada has a serious point	
	to make.	

Step 2のリスニングについてはスクリ プトを隣ページに掲載しており、 自学 自習用教材としても扱えます。

make self-driving cars and totally autonomous this and totally autonomous 25

that, Professor Okada has a vision of weak robots which work together with us.

22. have a point to make 指摘すべき点がある 25. this and that あれやこれや

Weak Robots

2

Language Resources



ords in the Box



各レッスン末に、語彙・表現のまとめとして Language Resourcesを配置しています。

Sentence Activators

本文中から発信に役立つ表現 を取り上げ、例文とともに振り 返ります。 ※本文中のSマークと連動。

relation aging society · interact with ~ · aging population · communicate with ~ pension · rule · elderly care · control · (2)home · (1) with \sim · (8) people · researcher · scientist roboticist · designer ·user · (4) · (6 Humans **Robots** robotics use · manufacturing · mathematics · computer science transportation · information science · service at a restauran · (6 · medical care . (7) · companionship · education · military robot types security · (1) · android · (I) and relief · wearable device · drone · (8) robot · (9) robot 本課のテーマに関する語彙・表現を 意味ごとにグループ分けし、穴埋め テストを交えつつ整理します。 • Fill in the blanks with the words below.

Words autonomous / caregiver / collaborate / electronics / engineer / engineering / delivery /

Study the sentences below, paying attention to the patterns printed in red. Then try using the patterns in new sentences with your own ideas.

~という意味で

- 1 They are called "strong" robots, in the sense that they can work without human help. (p.24)
- This hotel is unique in the sense that it's an old palace.

興味深い点は~

- 2 What's interesting about the little cleaning robot is that he has become part of your family. (p.24)
- What's interesting about our school is that we keep cows on campus.

~と言うかのように

- 3 STB bows, as if to say, "Thanks!" (p.25)
- ► Governments encouraged companies to start developing vaccines, as if to say, "On your mark, get set, go!"

観占

- (4) From Okada's point of view, this weakness draws out our cooperative spirit.
- From my point of view, AI robots will take over 70 percent of our jobs. (p.26)

~に喜びを感じる

- 5 The parents **experience joy in** looking after the child. (p.26)
- The engineers experience joy in developing a new type of wheelchair.

industrial / inventor / nursing / rescue

Part 2 (Lesson4~7) の本文は**セクション 分けなし、傍注あり**の形です。

Lesson

4

13. set out to ~ ≒ start to ~

18. windchill factor 体感温度

18. minus 110 degrees Fahrenheit

≒ minus 79 degrees Celsius As a young boy of 17, Hugh Herr was one of America's most prominent rock climbers. But he had a severe accident while climbing. In this lesson, we will find out how he coped with hardship and developed his career.

ugh Herr was a born climber. By age 8, he had scaled the face of 11,627-foot Mt. Temple in southern Alberta, Canada. Later, he began climbing without a rope. He ascended tough climbing routes, some of which no adult had ever attempted before. By the time he was a teenager, Herr was one of the top rock climbers on the East Coast.

Climbing Accident

In January 1982, 17-year-old Hugh Herr and his friend, Jeff Batzer, age 20, set out to climb Mt. Washington. Located in New Hampshire, Mt. Washington is the highest peak in the Northeastern United States, at 6,288 feet. Their climb began in reasonable weather, but winters in New Hampshire can be brutal, and very quickly, the two boys were fighting 100-mile-per-hour winds. The temperature dropped to a windchill factor of minus 110 degrees Fahrenheit.



Mt. Washington

Part 3(Lesson8~10)の本文は**セクション分け・傍注ともになし**の形です。

9

People have long thought that culture is what makes humans different from other animals. But recent studies have shown that this is no longer the case. Let's examine various examples of animal culture.

ulie started a fashion fad. The 18-year-old chimpanzee stuck blades of grass into her ears and went around a wildlife sanctuary in Zambia showing off her new accessories. The other chimpanzees couldn't take their eyes off her. Pretty soon, they were also sticking grass in their ears. Eight

out of the 10 in the group took up the fad.

Julie died soon after, but her grass-in-the-ear fashion trend still lives on among her followers. The ¹⁰ tradition arose spontaneously and spread through social networks, very much like a human fad.

This is just one of many surprising examples of animal behavior that lead animal researchers to talk about animal "culture."



Grass-in-the-ear fashion

Definition of "Culture"

It was once thought that only human beings have culture. We have art, science, and music; animals have only instinct. But that attitude turns out to be misguided. Many new findings about animal behavior tell us that "culture," as many biologists now understand it, is not exclusive to humans.

The idea that animals have culture may seem like nonsense. If "culture" means symphony orchestras, novels like *The Tale of Genji*, and museums like the Louvre, it is obvious that animals do not have culture. But that is not how these scientists define culture.

Andrew Whiten, an evolutionary psychologist, defines culture as ²⁵ behavior that can be passed from one individual in a group to another individual, and which then spreads across the group and can be passed down through generations.

- Q-1 How did Julie's grass-in-the-ear fashion spread after she died?
- Q-2 What do many new findings about animal behavior tell us?





Lesson 2)

Wrap It Up! (p.29)

Model

Many robot engineers think that robots which are independent of human beings are more advanced than those which are dependent on humans. Professor Okada Michio, however, has a very different idea. He is working on robots which are designed not to work without human interaction. He calls them "weak" robots. Their weakness causes them to form a cooperative relationship with humans. They become friendly little helpers. One area where weak robots will be useful is in caring for the elderly. Weak robots can provide companionship and make the environment more friendly and livable.

Addressing the Issue (p.32)

Step 4

Model

It was a dark and stormy night. Mysterious shadows appeared. A stray cat dashed across Jeremy's path.

Jeremy had stayed late at cram school and missed the last bus. He had been walking on dark and scary streets for nearly an hour. There was not another person in sight.

In 2020, Jeremy would have been scared to death. But this was 2036, and Jeremy had no fear. He was not alone. The stray cat was being chased by AiNiBot, Jeremy's constant companion, protector, and friend.

AiNiBot was the latest model of a weak robot helper. Half cat and half dog, AiNiBot followed Jeremy's every command, understood his moods, and protected him from danger.

With AiNiBot by his side, Jeremy walked on into the night, whistling cheerfully, unafraid.

> 各レッスン「Wrap It Up!」および 「Addressing the Issue」の解答例を 巻末付録に掲載。自学自習にも活用 できます。

> > 175

各課本文の新出語は、巻末にまとめて 掲載しています。

New Words & Phrases

Lesson 1)

Section 1

Lera Boroditsky [lérə bərədítski:]

cognitive [kágnətiv]

California [kæləfɔːrnjə]

San Diego [sændiéigou]

magical [mædzikl]

transmit [trænsmít]

differ [difər]

vocabulary [voukæbjəlèri]

forth [f5: $r\theta$]

data [déitə]

weigh [wéi]

Section 2

Aboriginal [&bərídʒənəl]

Kuuk Thaayorre [kúːk táɪər]

cardinal [ká:rdɪnl]

northeast [nò:rθí:st]

orientation [à:riənté:[ən]

toward(s) [tó:rd(z)]

landscape [lændskem]

dramatically [drəmætikəli]

Section 3

realm [rélm]

exact [igzékt]

quantity [kwantəti]

folk [fóuk]

linguistic [lingwistik]

spectrum [spéktrəm]

boundary [báundri]

differentiate [difərén[ièit]

lifetime [láɪftàɪm]

distinguish [distingwif]

categorize [kætıgəràız]

perceptually [pərséptʃuəli]

discriminate [diskriminèit]

whereas [(h)weəræz]

Section 4

specify [spésəfài]

requirement [rikwáiərmənt]

beauty [bjúːti]

diversity [dəvə:rsəti]

reveal [riví:l]

ingenious [ɪndʒiːniəs]

tragic [trædzik]

Another Point of View

monolingual [mànəlíŋgwəl]

neuroscientist [njùarousáiantast]

bilingualism [baɪlfŋgwəlizm]

illogical [ıládʒıkl]

grammatically [grəmætikəli]

grammatical [grəmætikl]

executive [ɪgzékjətɪv]

general [dzénərəl]

regularly [régjələrli]

pop up ≒ appear unexpectedly

sort through ~ ≒ look through ~

frequently [frí:kwəntli]

efficient [Iff[ent]

serve as $\sim =$ be suitable for

conventional [kənvén[ənəl]

conventional wisdom

disadvantage [disədvæntıd3]

deficient [diff[ant]

definite [défənət]

strengthen [stréŋkθn]

creative [kriéitiv]

simultaneously [sàimltéiniəsli]

constantly [kánstəntli]

occasional [əkéɪʒənl]

podcast [pádkæst]

rewarding [riwɔirdin]

言語活動に役立つ表現のリストFunctional Expressionsを 巻末に掲載。**議論、やり取り、英作文**等に活用できます。

Functional Expressions

I. Agree / Disagree

1) Saying you agree

- a. I absolutely [completely] agree with you about ...
- b. I'm of the same opinion.
- c. I'm with you there.
- d. That's (just) what I was thinking.
- e. You're right about ...
- f. I share your opinion about ...

2) Saying you partly agree

- a. I see what you mean, but ...
- b. I agree in principle, but ...
- c. I agree up to a point, but ...
- d. You are right on that point, but ...
- e. You could say that, but ...
- f. I like your idea, but ...
- g. Yes, but on the other hand, ...
- h. Yes, but don't you think ...?
- i. I'm with you, but I would have to add that ...

3) Asking if someone agrees

- a. Do you go along with that?
- b. I wonder if you would agree that ...
- c. I wonder if you would agree with ...
- d. ..., wouldn't you say?

4) Saying you disagree

- a. I have to disagree with you there.
- b. I have a different opinion about that.
- c. Sorry, but I don't see it that way.
- d. Actually [In fact], I think ...
- e. I'm not at all [entirely] convinced ...
- f. I see things differently.

5 Expressing strong protest

- a. You are simply wrong when you say ...
- b. It is simply not true that ...
- c. I just cannot accept your idea that ...
- d. I just don't see how you can say that ...

e. There is no way that I could ever agree that ...

6) Acknowledging disagreement

- a. I guess we see things differently.
- b. We'll just have to agree to disagree
- c. There's no point in continuing to discuss ...

II. Opinion / Reason / Example

7) Expressing your opinion

- a. I think ...
- b. In my view [opinion], ...
- c. It seems to me ...
- d. From my point of view, ...
- e. As far as I'm concerned, ...
- f. This is what I think about ...
- g. My idea about that is that ...
- h. Would you like to hear my opinion?

8) Asking someone's opinion

- a. What do you think about [of] ...?
- b. What is your impression of ...?
- c. How do you feel about ...?
- d. What is your reaction to ...?
- e. What would you say to ...?
- f. I'd be glad to have your view [opinion] on ...

9) Expressing reasons for your opinion

- a. Let me explain. You see ...
- b. Let me explain how [why / what / where / when] ...
- c. If I could explain: ...
- d. The reason I believe this is that ...
- e. Considering what I have learned, it is probable that ...
- f. On the basis of what I understand, I would say that ...
- g. From my own personal experience, I would say that \dots

10) Giving a source for an opinion

- a. I read in the newspaper that ...
- b. I heard a rumor that ...
- c. I got it straight from the horse's mouth that ... (= I'm absolutely sure that ...)
- d. It is widely believed that ...

11) Correcting someone's opinion

- a. As a matter of fact. ...
- b. Hold on a minute.
- c. I think it might be more correct to say ...
- d. There's another way to look at ...

12) Giving an example

- a. Take ..., for example [for instance].
- b. Let me give you an example.
- c. To give you an example of this [what I mean], take ...
- d. Here is another case of ...

III. Certainty / Uncertainty

13) Expressing certainty or belief

- a. There is absolutely no doubt that ...
- b. Nobody can question the fact that ...
- c. It is beyond dispute that ...
- d. I strongly believe that ...
- e. I'm totally convinced that ...
- f. There is not the slightest doubt that ...

14) Saying you are not sure

- a. I don't know, but I think ...
- b. I'm not sure, but I suppose ...
- c. I don't know exactly, but I guess ...

15) Qualifying a statement

- a. I know that it's silly, but ...
- b. It's not scientific, but ...
- c. There is no evidence, but \dots

16) Expressing tentative conclusions

- a. I don't have any evidence for this, but I believe that ...
- b. It's not certain, but there's a pretty good chance that ...
- c. I wish I had a good answer, but really I can only guess that ...

17) Saying you don't know

- a. I don't know anything [much] about ...
- b. I'm afraid I have no idea ...
- c. Not that I know of.

IV. Paraphrase / Suggestion

18) Saying something in a different way

- a. What I mean is, ...
- b. In other words, ...
- c. Let me put it another way: ...
- d. Perhaps it would be more accurate to say that ...

19) Supplying information

- a. Maybe you are thinking of ...
- b. Is it possible that you are thinking of ...?
- c. If I remember correctly ...

20) Saying that someone should do something

- a. I think we [you] should ...
- b. Why don't we [you] ...?
- c. It might not be a bad idea ...
- d. I would recommend ...

21) Saying that someone should not do something

- a. I don't really think we [you] should ...
- b. We [You] shouldn't ...
- c. We'd [You'd] better not \dots