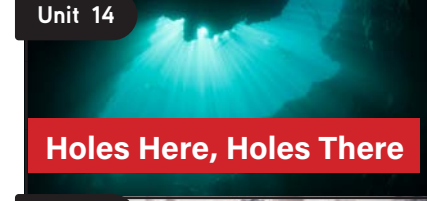


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Dutch Ideas!



Mission

あなたはゴミ問題の専門家です。「捨てられるものを再利用してゴミを減らそう」というプロジェクトに参加することになりました。海外での取り組みを参考にして、再利用のアイデアを提案しましょう。

Warm Up to the Topic

Q1 日々の生活でゴミを減らすためにあなたがやっていることはありますか。当てはまるものを選んでみましょう。

- a. エコバッグを使う () b. マイ箸を持ち歩く ()
 c. お菓子などの空箱を再利用する () d. 服をリメイクする ()
 e. その他: ()

Q2 日本語に合う語句を選び、空欄に記号を記入しましょう。

1. ごみ () 2. 革新的な () 3. 減らす () 4. 再利用する ()
 5. リサイクルする ()
 a. innovative b. recycle c. reduce d. reuse e. waste

Warm-up Reading

EU 諸国で取り入れられているゴミ問題への最新の解決策とはどのようなものでしょうか。次のリポートを読んでみましょう。

002

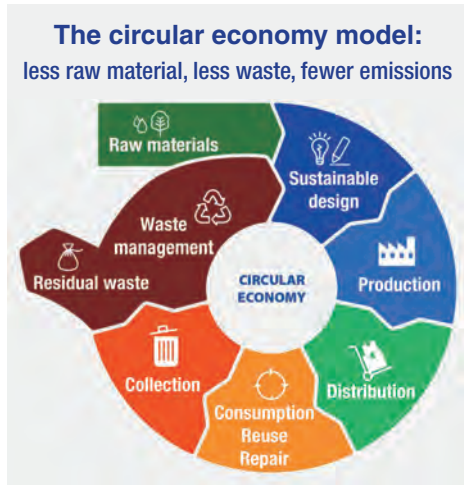
The Circular Economy

Annually, the EU produces over 2.1 billion tons of waste. Therefore, to reduce this huge figure, it is promoting a new model of recycling waste called the circular economy. This model aims to promote sustainability through cutting waste to a minimum level.

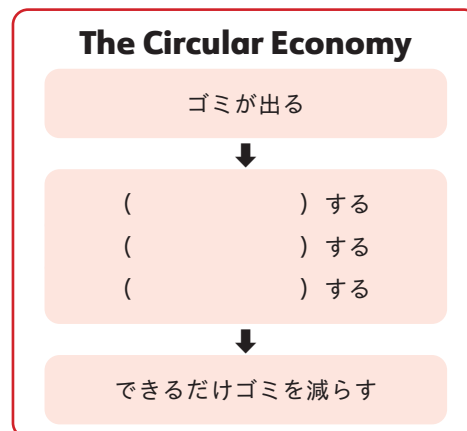
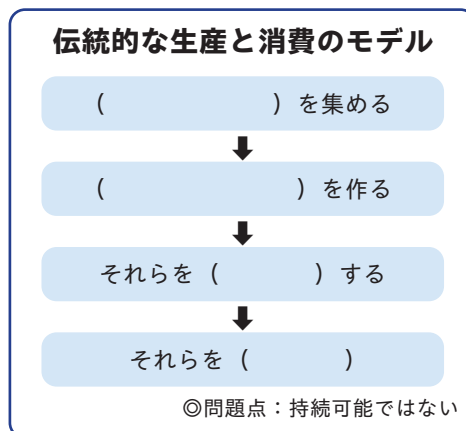
The traditional model of production and consumption is like a straight line. Typically, it involves: gathering raw materials → making products → consuming them → throwing them away. However, because our planet has limited resources, this method is not sustainable.

In contrast, the circular economy model promotes an environmentally friendly cycle of repairing, reusing and recycling existing materials and products as much as possible to extend their life for as long as possible.

As the chart shows, the most important feature of the circular model is that a large amount of waste is recycled for redesign and reuse to create new products.



Q 新旧のごみ処理方法を比較して、情報を表にまとめましょう。



Reading

Old Products, New Lives

これからのリサイクルに関する文章を読み、内容を理解し、以下の設問に答えましょう。

Part 1 A Popular, Timeless Candy

003

1 Gum. While some may like it and others dislike it, people have been chewing gum in one form or another for thousands of years. For example, in South America, the ancient Mayan people chewed a gum-like tree substance called chicle to quench thirst or stop the feeling of hunger. Also, the Aztecs used the same substance to
5 freshen their breath and clean their teeth. But why has the chewing of gum prevailed to the present-day? Theories suggest that chewing it does suppress a person's appetite, reduce stress, and even improve one's memory. If any of these are true, the long popularity of the sweet treat is understandable.

2 Early manufactured chewing gum was made of tree resin and natural wax.
10 Nowadays, though, it basically consists of plastic and rubber, which gives it an endless shelf life. This means that in most countries chewing gum packaging is not required to show an expiration date. As such, gum belongs to a small group of foods with this special status!

Words & Phrases quench thirst 渴きを癒す prevail 流行している shelf life 賞味期限

Self-learning

分からない語句があったら、辞書などで調べて意味を確認してみましょう。

語句	意味

Q1 古代のアステカ人は何のためにガム（のようなもの）を噛んでいたか、適切なものを選びましょう。

a. 食後のデザートとして b. 非常食として c. 歯磨きの代わりとして

Q2 ガムを噛む影響として、現在ではどのようなことが信じられているか、空欄を埋めましょう。

・食欲を() / ストレスを() / 記憶力を()

Q3 空欄を埋めて、ガムの原料を比較・整理しましょう。

・古代のガムの原料：チクル

・初期のガムの原料：木の()と天然の()

・現代のガムの原料：()と()

Part 2 A Novel Solution to a Sticky Issue

004

1 However, chewing gum has another status that is definitely not special—it is a common cause of litter. Depending on where you live, sometimes you might experience gum sticking to the sole of your footwear as you walk along the street. Then you struggle to remove this unwanted “passenger.” Unfortunately, this problem exists in many cities. However, one company decided to take unique action to tackle it.

2 Annually, the Netherlands sees 1.5 million kilos of discarded gum on its streets. In fact, it is the city’s second most common type of litter after cigarettes. Even so, an innovative company in Amsterdam sees this gum as a source of material. Its staff search the streets for the gum, remove it, and recycle it. In fact, the company made the world’s first stylish sneakers using the recycled chewing gum. So, when customers purchase and walk in them, they are putting gum on the streets but it does not remain there as litter. What a great Dutch idea!

Words & Phrases litter ポイ捨て struggle 奮闘する purchase 購入する

Self-learning 分からない語句があったら、辞書などで調べて意味を確認してみましょう。

語句	意味

Q1 オランダで年間にポイ捨てされるガムの量はどのくらいか、適切なものを選びましょう。

- a. 1500 キロ b. 150 万キロ c. 1.5 トン

Q2 アムステルダムのある会社は、ポイ捨てされたガムから何を作ったか、適切なものを選びましょう。

- a. スーツ b. スニーカー c. スリッパ

Q3 以下の文中の語句のうち、「ガム」を指しているものをすべて選びましょう。

- a. a common cause of litter
b. this unwanted “passenger”
c. a great Dutch idea

Part 3 Students and Shipping: What’s the Link?

005

1 Gum is not the only problem facing residents in Amsterdam. Since it is the capital of the Netherlands, it attracts many people from other parts of the country. Consequently, there is great demand for housing in the city, which pushes up property prices and rent. This is a particular problem for Dutch college students studying in the capital, as they need affordable housing. To address this issue, efforts were made by the local government and colleges to find enough inexpensive housing for the them, but without success.

2 A solution for this issue came from an unlikely source—old shipping containers. Annually, 100,000,000 of these large steel containers transport products to destinations all over the world. However, the average life of each container is only around 10 years. While steel companies do recycle some of the retired containers, the majority lay piling up in ports all around the world. So, what is the connection between a lack of student accommodation in the Dutch capital and old shipping containers?

Words & Phrases property prices 不動産価格 address (問題などを) 処理する pile up... …を積み上げる

Self-learning 分からない語句があったら、辞書などで調べて意味を確認してみましょう。

語句	意味

Q1 アムステルダムの学生たちが直面している問題とは何か、適切なものを選びましょう。

- a. 学費が高い
b. 通学時に道路が混雑する
c. 手ごろな家賃の住宅がない

Q2 古い輸送用コンテナが、どのくらい再利用されていたか、適切なものを選びましょう。

- a. ほとんど再利用されていた
b. 半分以上再利用されていた
c. 大半は再利用されていなかった

Part 4 Living in a Comfortable Box!

006

1 Another innovative Dutch company decided to reuse the old containers as housing. Due to their abundance, the company can purchase them relatively cheaply. In addition, the containers can fit together very easily, so it is easy to build housing with them. This was such a good idea that the city organized a project to increase container-made housing. It was called the Keetwonen project, and when construction began, it only took several weeks to provide housing for hundreds of students in Amsterdam.

2 When students first learned of the project, they were concerned about living in old shipping containers. However, the recycled containers are clean, spacious, and have large windows. Also, they have a kitchen, bedroom, study area, bathroom, and even a balcony. And because containers are made of steel, you might think living in one would be cold. However, these stacked apartments are warm. Moreover, they are quiet and have a high-speed Internet connection. All perfect for students! Old containers for new housing—what another great Dutch idea!

Words & Phrases abundance 豊富なこと spacious 広々とした be concerned aboutを気にかける

Self-learning 分からない語句があったら、辞書などで調べて意味を確認してみましょう。

語句	意味

Q1 The Keetwonen project とはどのような取り組みですか。空欄を埋めましょう。
() を再利用して、学生向けの () を建設する

Q2 このプロジェクトに対する学生たちの反応は、どのように変化しましたか、適切なものを選びましょう。

a. 「期待」 → 「落胆」
b. 「安心・満足」 → 「不安」
c. 「落胆」 → 「期待」
d. 「不安」 → 「安心・満足」

Grammar Pick-up

不定代名詞 one

文中ですでに出てきた単数名詞を言い換えるとき、それが不特定なものや人である場合、不定代名詞 one を使います。

例 I think I lost my pen. I have to buy one.

この例文中の one は、「ペン」を指していますが、特定のペンを指しているわけではなく、ペンであればどれでもかまわないため、不定代名詞 one を使って言い換えています。

Q Part 4 を読み返して、不定代名詞 one を含む文を見つけ、意味を確認しましょう。

Summarize the Key Points

- ペアになって、1人が Summary A の空欄を、もう1人が Summary B の空欄を下の語群から適切な語を選んで埋めましょう。
- 空欄を埋めたら、完成させた要約文をお互いペアの相手に読みあげて、内容が合っているか確認しましょう。

Summary A

People have chewed gum for thousands of years. It may reduce (1.) and improve (2.). But gum is also a common cause of (3.). In Amsterdam, a company collects gum and recycles it into (4.). Now, people can wear gum on their feet and walk without (5.) the street. Great Dutch idea!

dirtying / litter / memory / sneakers / stress

Summary B

Amsterdam has a housing problem, especially for (1.) students. However, a Dutch company (2.) old shipping (3.) to build student apartments. The project, called Keetwonen, made many clean, warm, and quiet apartments. Each one has a (4.), study area, and even a balcony, so they are (5.) for students.

college / perfect / containers / kitchen / reused

Complete Your Mission

「捨てられるものを再利用してゴミを減らそう」というプロジェクトに参加することになりました。海外での取り組みを参考にして、再利用のアイデアを提案しましょう。

Brainstorming

1. この Unit で読んだ 2 つのアイデアを、日本で取り入れるとしたら、どちらが良いと思いますか。

() a. 捨てられたガムを再利用してスニーカーを作る。

() b. 使わなくなったコンテナを再利用して住居にする。

2. そのアイデアを選んだ理由を書きましょう。

3. あなたの日々の生活の中で、捨てずに再利用できそうなものにはどのようなものがあるでしょうか。アイテムと使い方について、2 つ例を挙げてみましょう。

アイテム①: _____ 使い方: a. そのまま使う b. 加工して使う

アイテム②: _____ 使い方: a. そのまま使う b. 加工して使う

Writing

1. Study the Model Writing

まずはモデルの英文を見て、構成や表現を確認しましょう。

自分が選んだアイテム	The item I would like to reuse is discarded chewing gum that people throw away on the streets.
選んだ理由	In the Netherlands, about 1.5 million kilos of gum are thrown away every year. Gum consists of plastic and rubber, and does not break down easily.
その技術の再利用方法	A Dutch company collects gum from the streets and recycles it. The company uses the gum to make sneakers.
その方法の長所	This reduces litter and makes the city cleaner. At the same time, it creates useful and stylish sneakers.

2. Your Turn

モデルの英文を参考にし、**Brainstorming 3.** で挙げたアイテムの 1 つについて、再利用のアイデアを英語で説明しましょう。
