

Unit 01

Giant Vehicles Overcoming Limits

(Conjunctions) until / when / while

- 'Until' means up to the point in time or the event mentioned, 'when' means at or during the time that, and 'while' means during the time that something is happening. As these are conjunctions, subject and verb come after the position of conjunction.

Example

They must have been burgled **while** they were asleep.

You're not going out **until** you've finished your homework.

Emma will continue her present job **until** a replacement can be found.

While I was waiting at the bus stop, the bus went by in the opposite direction.

James listened to classes of various majors **when** he was at university.

Grammar Exercise for Reading

+ Is the sentence right or wrong? Choose O or X.

1. The recipe explains how to bake until the pastry is golden and crispy. (O / X)
2. While the vacation, Jamie's family is going to the lake house for swimming. (O / X)
3. Most of the metal expands when it is heated and contracts when it is cooled. (O / X)
4. As I saw someone suspicious in a car, I watched it until he was out of sight. (O / X)
5. When you leave for dinner, follow the same procedure to check out. (O / X)
6. The children had bloomed while their stay on the farm. (O / X)
7. We could get a new smart phone now or hold off when prices are lower. (O / X)
8. While cooking the pasta in boiling water, prepare the sauce. (O / X)

+ Circle the appropriate word.

1. Peter is not supposed to play computer games (when / until) his mom comes home.
2. (When / While) you want to borrow books from the school library, you need an ID card.
3. Stacy was preparing for the party (when / while) her friends were talking at the table.
4. Who is in charge of this project (while / until) the boss is abroad for business trip?
5. Heat (while / until) all the water has evaporated to make only the materials remain.
6. James left the document on his desk before going for dinner and (while / when) he came back, it was gone.
7. (While / Until) I was there, I collected images and inspiration for new work.

Exercise

Choose three sentences from the answer and say them in 3 seconds to your teacher without your book.

Unit 01 Giant Vehicles Overcoming Limits

UNIT 01

Have you ever seen a monster truck? Monster trucks have big wheels and can drive over almost anything. There are many types of big trucks with different purposes.

A truck able to travel both on water and land is called the “Duck.” **Until** the Duck is prepared for travelling using its propeller, **★it** can only move on land with its six wheels. The Duck can carry people and take them to places that are hard to reach. Sometimes people use this truck to pick up people **when** there are emergencies, such as being caught in storms. You can even ride a Duck for fun.

Another type of truck is called the “Vehicle Bridge.” This amazing machine is both a vehicle and a bridge. The Vehicle Bridge is used in places where there are no roads or bridges. The bridge moves up and over the gap between points so that other vehicles can drive across. **When** the bridge is no longer needed, it folds up onto the vehicle.

Heavy objects can be moved from one place to another by crane lifts, which is another big mover. They help workers

until the tasks of loading-unloading cargo and building huge buildings are done. **While** some of the world's largest cranes move containers to ships, others are used to lift supplies to the tops of buildings.

Another type is the dump truck, the biggest one that is usually found in mines. **While** miners are working loads of dirt and rock, the dump trucks **take away** dumps to clean up. Some trucks can move up to 400 tons of soil. Because they carry such heavy loads, they use some of the biggest tires in the world. Their tires are over 13 feet (4 meters) tall. Big trucks are able to move spacecraft. They can move space shuttles, rockets, and other **numerous** machines from a platform that is far away. **Until** these vehicles independently have their own road, they need support from computers and a team of thirty people.

Huge vehicles are used in many ways. These amazing vehicles move heavy loads and travel both above and below the ground. Gigantic vehicles have gotten much bigger over the years. It looks as though they will keep getting bigger and bigger. How big are they going to get?

UNIT 01

Vocabulary

▪ emergency[n]	such as an accident, that happens suddenly or unexpectedly and needs fast action in order to avoid harmful results Is the emergency exit suitable?
▪ vehicle[n]	a machine, usually with wheels and an engine, used for transporting people or goods, especially on land Tractors are farm vehicles .
▪ fold[v]	to bend something, especially paper or cloth, so that one part of it lies on the other part Have you ever seen an airplane that can fold its wings?
▪ supply[n]	things (such as food, equipment, fuel, etc.) that are needed for a particular purpose and that will be used by a particular person or group We cannot guarantee adequate supplies of raw materials.
▪ spacecraft [n]	a vehicle that is used for travel in outer space The astronomers plan to send a spacecraft to the moon.
▪ numerous[adj]	many Nikki decided to leave for numerous reasons.
▪ independently [adv]	without being influenced or controlled by other people, events, or things Each member will work on the project independently .
▪ mine[n]	a hole or system of holes in the ground where substances such as coal, metal, and salt are removed My uncle used to work in the mines .
▪ support[v]	to help someone emotionally or in a practical way It's important to support local businesses.
▪ load[n]	something that is lifted and carried The lawyer was carrying a heavy load of legal documents in the briefcase.

Reading Comprehension

[1~3] Choose the right word for the blank below.

There are many types of big trucks with 1. _____ purposes. The truck called the vehicle bridge is used in places where there are no roads or bridges. The dump truck takes away dumps to 2. _____ up. Huge vehicles are used in many ways. It looks as 3. _____ they will keep getting bigger and bigger.

1.
 - a. different
 - b. danger
 - c. same
 - d. certain

2.
 - a. close
 - b. scale
 - c. clean
 - d. carry

3.
 - a. and
 - b. but
 - c. however
 - d. though

4. What is the passage mainly about?
 - a. Huge vehicles that help our life
 - b. Huge vehicles' operating mechanisms
 - c. Huge vehicles' types and commonalities
 - d. Huge vehicles' evolution in history

[5~7] Write T if statements are true or F if statements are false according to the passage.

5. The “Duck” is used for both rescue and leisure purposes.

6. None of the trucks can cross a gap without a bridge.

7. Dump trucks use the world’s largest tires to transport heavy cargo.

8. The phrase **take away** in the passage is closest in meaning to

- a. remove
- b. rope
- c. impound
- d. seize

9. The word **numerous** in the passage is closest in meaning to

- a. few
- b. never
- c. various
- d. small

10. Which is true according to the passage?

- a. Some trucks are able to travel on both water and land.
- b. A crane lift is a vehicle that can become a bridge.
- c. A crane lift is used in building small buildings because it can move heavy objects.
- d. Dump trucks that can move 400 tons of dirt cannot move spacecraft.

11. Which is false according to the passage?
- a. The “Duck” can be used to pick up people caught in storms.
 - b. Crane lifts can move containers onto ships.
 - c. Big trucks that move spacecraft can move independently and don’t need a support team.
 - d. Dump truck tires are over 13 feet tall.

12. What does ★it in paragraph 2 refer to?
- a. Duck
 - b. travelling
 - c. a propeller
 - d. a spacecraft

13. What can be inferred from the passage?
- a. Giant vehicles are used for many purposes to make human lives more convenient.
 - b. The “Duck” is only used to rescue people.
 - c. A dump truck can function without computer or human assistance.
 - d. The evolution of large vehicles aggravated warfare.

14. According to the passage, where and when can we use the Vehicle Bridge?

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15. According to the passage, what kind of purposes can we use the "Duck" for?

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CHECK LIST ✓

Date: . .

Video Lecture

- Have you watched the video lecture at least 2 times before the class?
- Have you watched the video lecture after the class?

Vocabulary

- Did you study the vocabulary listed next to the reading passage?
- Did you review what you got wrong on this unit's test?

Grammar

- Have you understood the points of this unit's Grammar Exercise?
- Have you answered the questions on the Grammar Exercise?
- Please review what you got wrong. Did you understand why you got wrong?

Reading Comprehension

- Have you read the stories carefully?
- Have you answered all the questions on this unit's reading comprehension?
- Did you figure out all of the exact reasons (or supporting details) for each question's answers?
- Please review what you got wrong. Did you understand why you got wrong?

Teacher Signature



Parent Signature

