

07 Asteroid in a Capsule

Samples from Asteroid Bennu Returning to US

LIVE ESL – APIBECI

SPACE NEWS

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ISSUE 25

PRE – ASSESSMENT



PRE 1 – Listening to Familiarity

These are the words that you *might possibly encounter or hear* from the video. Listen to the audio carefully and put a check mark beside the words that you can hear from the video.

- | | |
|--|---|
| <input type="checkbox"/> asteroid | <input type="checkbox"/> inflation |
| <input type="checkbox"/> guarantees | <input type="checkbox"/> capsule |
| <input type="checkbox"/> spacecraft | <input type="checkbox"/> cutting their prices |
| <input type="checkbox"/> criminalized | <input type="checkbox"/> swarmed |
| <input type="checkbox"/> in the making | <input type="checkbox"/> payroll |
| <input type="checkbox"/> intact | <input type="checkbox"/> insight |
| <input type="checkbox"/> countersued | <input type="checkbox"/> fumes |



PRE 2 – Re-Tell

Listen to the audio carefully and **take notes** on the main points and key details. After the audio ends, **re-tell what you heard in your own words**. Focus on summarizing the main ideas, supporting details, and any examples mentioned in the audio.

01

Article Transcription Reading.

The following text below is a transcribed text from the listening article. Feel free to **mark other words** that you are **not familiar with** or are not highlighted below. Notes are available at the last page of this lesson.

- 00:00 An out of this world scientific sample seven years **in the making**. For the first time in US history, NASA is returning an **asteroid** sample from space. CNN's Space and Defense Correspondent Christine Fisher has more on this **remarkable** mission.
- 00:25 "The OSIRIS-REX spacecraft left Earth back in 2016. Since then it has traveled more than 4 billion miles to the asteroid Bennu and back before finally releasing a **capsule** over the United States on Sunday morning. Inside this capsule was about half a pound worth of rocks and dust and soils from the surface of the asteroid itself. This is really the first time that NASA has ever done anything like this. This capsule entered the Earth's atmosphere, traveling at about 27, 000 miles per hour."
- 01:00 "It hit temperatures of about 5, 000 degrees Fahrenheit before finally landing in the Utah desert at just about 11 miles per hour. Thanks to some pretty big **parachutes** which helped slow the landing. From there, recovery crews that had been training for years for this very moment, **swarmed** the capsule. They were able to check it out, make sure it was still **intact**. They were able to make sure the battery was not leaking any toxic **fumes**. It was not. From there, they were able to safely transport it to a clean room. From there, it's going to be going on to the Johnson Space Center in Houston, Texas where it will be opened and revealed to the public in about two weeks."
- 01:40 "And that is where scientists are going to be spending the next few years, really looking into what exactly this sample has returned. And this is a sample from the asteroid Bennu. It is a very **ancient** asteroid from the beginning of the time around when the solar system was formed. Scientists are hoping to gain some **insight** into if this is the kind of asteroid that could perhaps seeded planet Earth with the elements that we needed for life, things like water and carbon."
- 02:11 "There was a belief that it was these types of asteroids that upon **impacting** earth, we're able to seed it with those elements. Give it the elements that were needed to create life here. Scientists are going to be looking into that. They're also going to be looking at the planetary defense side of things because there is a very very small chance that this asteroid could hit Earth in about 150 years from now. It is a small chance but it is a chance. NASA wants to study as much about it as possible."
- 02:43

02 A1 – Pairing Meanings.

Match the words on the first column to its corresponding meaning on the second column.

A in the making	1 _____	complete; not broken or damaged
B asteroid	2 _____	small case usually round in shape
C spacecraft	3 _____	growing; developing; in the process
D capsule	4 _____	small rocky body found in space
E swarmed	5 _____	gasses; smoke; vapor
F fume	6 _____	flock; move around; crowd
G intact	7 _____	understanding; awareness
H insight	8 _____	transport used for traveling in space

02 A2 – Fill in the Right Words

Supplement the right words to complete the given sentence below. Use the words you have understood from the article.

An out of this world **1** _____ sample seven years in the **2** _____. For the first time in US **3** _____, NASA is returning an **4** _____ sample from **5** _____. CNN's Space and Defense Correspondent Christine Fisher has more on this remarkable mission.

03 Speak Up.

You are welcome to authentically share your thoughts as you go through the following questions.

1 Do you believe that this asteroid really would hit the planet Earth in 150 years?

.....

2 Asteroids have existed long ago, do you think there are other entities out there?

.....

3 What would you do and how would you feel if an asteroid were to hit earth and bring an end to human life?

.....

04 Building Deeper.

Choose the **words** from the article, or the vocabulary activity before. Write them under their corresponding categories. Do your best to **create examples** that can **help you remember** and understand the word better.

FAVORITE WORDS

Words that you think you will use on a daily basis

WORD	01
.....	
+ example	

INTERESTING WORDS

Words that you find interesting for the first time

WORD	01
.....	
+ example	

DIFFICULT WORDS

Words that you find difficult to say or understand

WORD	01
.....	
how can I understand better + example	

WORD	02
.....	
+ example	

WORD	02
.....	
+ example	

WORD	02
.....	
how can I understand better + example	

The universe is a great unknown – Are you willing to venture out and find out?



Notes

Good job for finishing the lesson through. If you were to **give yourself stars** for doing your best, how many stars will you give to yourself for today's hardwork?



KEY ANSWERS

A1
1H 2I 3J 4B 5G 6A 7D 8E 9F 10C

A2
1 longevity epidemiological
2 starvation intake
3 evidence refined
4 fasting mimic
5 stressors resilient

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FEEDBACK

