



Class

Name

A Listen and check the words you hear in the video.



accurate

☐


supply

☐


escape

☐


overflow

☐

B Listen again and write the words you hear from the video in the blanks.

Now that we have learned some of the differences between news, entertainment, advertisements, opinion pieces, and other kinds of 1._____, let's talk about some ways that can help us tell the difference between real and fake news.

Deciding if something we see, hear, or read is actually true and 2._____ only partly true, or completely false is very important. We need to be careful of fake 3._____, because it can cause many people to believe things that aren't totally true. If many people believe something that isn't true, they might think, say, or do things based on this belief, which could cause lots of problems. This is why it's very important to be able to carefully think about mass media.

As I said earlier, there's a never-ending 4._____ of information at our fingertips. Even when we're not really trying to look for information, we see more and more of it in 5._____ places. Media comes at us from online sources, TV, newspapers, advertisements, and more. We see advertisements on our phones, on TV, on billboards, even on public transportation. There's really no 6._____ it. The best thing to do is learn how to decide what news is real or fake.

So, the first step to thinking about what is real or fake news is the 7._____ that

8. _____ the information. Is it a well-known source that people trust? Or, is it just an individual person or a small online organization? This can be an important first step. Another thing to do is to compare what one news media organization says against others. Are they reporting the same 9. _____ and information, or are there some differences? Furthermore, what is the 10. _____ of how the information is being presented? If there are spelling mistakes and other signs of poor quality, it might not be a source that you can trust.

It's up to you to decide for yourself what you believe is real or fake news. I hope today's lesson helps you to accurately decide the difference between fact and fiction in the media.

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- Ⓐ Advertisements Ⓑ Media Organizations Ⓒ Real or Fake News?



Class

Name

A

Listen and write the synonyms for words you hear in the video.



launch



equipment



financial



dramatically

B

Listen again and fix the mistakes. Write the correct words from the video.

1. Welcome back to LJF News. I'm Maya Oh. In part one of this evening's special news, we looked at how the internet has completely changed human society. Now, we'll look at some ways the internet can benefit us in the near future.

→ _____

2. Currently, some projects aim to give internet access to more people around the world. One of these projects is a collection of satellites that supply the Earth and transmit the internet to every corner of the Earth.

→ _____

3. With the internet available to more people, places, and things, so-called smart cities may eventually inform and replace older, more industrial towns.

→ _____

Some of these smart cities are already being built.

4. In a smart city, self-driving electric vehicles will help people get around. These vehicles,

our smart mobile devices, and other things, will communicate with the surrounding buildings and environment. For example, late at night, when there aren't many cars on the road, smart streetlights can save energy by turning off when nobody is around. When a person with a smart mobile device or a car gets close to a streetlight, the mobile device or vehicle will replace information to the streetlights nearby to let them know someone is coming.

→ _____

This will then turn on the streetlights, so people can see where they are. After they pass, the streetlights will turn off again and continue to save energy.

5. Another possibility in a smart city is that after your self-driving electric vehicle drops you off at work, instead of sitting in a parking lot waiting for you all day, it can work as a delivery vehicle or a taxi. This can help reduce traffic problems, air pollution, and help us to earn more money. Speaking of money, in a smart city, there's no need for cash. This is because people can make economic transfers with their mobile devices.

→ _____

The internet has already changed human society in incredible ways. And, it will only get better if we continue to think of ways that the internet can help people, and make our lives much easier, safer, and more convenient.

Thank you for watching. For LJF News, I'm Maya Oh.

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- Ⓐ Benefits of the Internet Ⓑ Benefits of Mobile Devices Ⓒ Benefits of Vehicles



Class

Name

A Listen and check the words you hear in the video.



engineer

☐


manufacturing

☐


foundation

☐


cord

☐

B Listen again and write the words you hear from the video in the blanks.

Alright, students. Here we are at the Pegasus Motors 1._____ facility. Not only are our new hydrogen fuel cell electric cars environmentally friendly but our factory also runs on clean energy to produce these cars.

This is truly a special state-of-the-art factory. Let me explain why as we walk around and tour the 2._____. As you can see, the factory only has a few people working inside it. However, this factory can build up to 300,000 cars per year. The other workers inside the factory are robots. These 3._____ never stop working unless the humans turn them off.

The factory and all the robots inside it need a lot of electricity. We are proud to report that this facility runs completely on clean, renewable 4._____. In addition to the wind farm we just came from, which has about twenty-five 5._____, we also have 6._____ about one thousand solar panels on the roof of the factory. They are connected to the factory and supply it with electricity. You might be wondering why we need wind turbines and solar panels to produce electricity. The reason is simple: nature. We can't control when the sun shines or when the wind blows. So, by having two ways of collecting energy from 7._____, we can be sure we have enough power to keep the factory running.

There are also a lot of computers that help this factory run. These computers tell us how much energy is being created by the solar panels and the 8._____, and they tell us how the robot workers are doing. It's too much information for humans to handle, so we have an AI 9._____ to help us. AI stands for artificial intelligence. We even have a name for our AI robot; we call it, Oliver. Whenever there's a problem with the energy sources or the robots in the 10._____, Oliver reports the problem to us. Oliver can also tell us the best way to fix the problem.

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Ⓐ Making Cars

Ⓑ Producing Electricity

Ⓒ Fixing Problems

Class

Name

****AR contents are provided for this unit**

A Listen and write the synonyms for words you hear in the video.



mysterious



creature



pressure



fragile

B Listen again and fix the mistakes. Write the correct words from the video.

1. In part two of my final project in biology class, I'll show a video that I made which explains how these strange animals called siphonophores use energy to live, move, eat, and grow.

→ _____

As we know, siphonophores are a relative of the jellyfish. Also, a siphonophore colony is basically a bunch of different kinds of single organisms all living together and helping each other.

2. Each one of these little atoms, called zooids, are grouped together on different parts of the civilization based on what their job is. Zooids that have the same job look the same as each other, but zooids that have a different job do not look the same. There are feeding zooids, reproduction zooids, defence zooids, and zooids for moving and swimming.

→ _____

Zooids that have the same job look the same as each other, but zooids that have a different job do not look the same. There are feeding zooids, reproduction zooids, defence zooids, and zooids for moving and swimming.

3. The stem of a siphonophore physically connects all of the zooids in the colony. The stem also acts as the circulation system. After the feeding zooids eat fish or other sea animals, they send the nutrients from the food through the cord, which transmits energy throughout the rest of the colony.

→ _____

4. The stem also grows longer as new zooids grow on the colony. As new zooids grow on the siphonophore colony, the siphonophore gets longer and longer. Siphonophores can grow longer than 40 meters, making it one of the longest animals in the world. Also, since siphonophores can multiply by growing new zooids on an existing colony, it can dramatically live forever.

→ _____

5. Although they have weak bodies, siphonophores have amazing defense and eating abilities.

→ _____

Many siphonophores, especially ones that live deep in the Midnight Zone of the ocean, have a special ability to glow in the dark. This scientific name for this ability is called bioluminescence. Siphonophores create light as a way to catch fish, and to scare away other animals that might want to eat it. Many siphonophores also have several stinging cells that produce a venom strong enough to kill humans. So, if you ever see one, be careful and don't touch it! Siphonophores use this venom to catch and eat fish.

I hope you enjoyed learning how this very unique creature lives. Thank you.

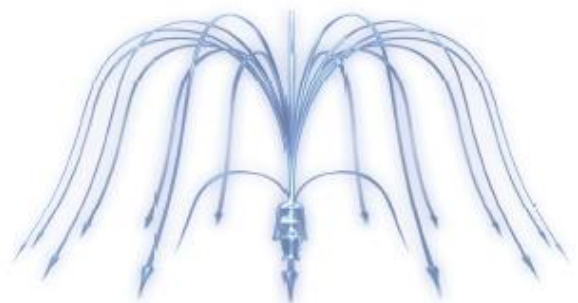
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(a) New Zooids

(b) Unique Creatures

(c) Single Organisms

***AR contents are provided for this unit. Please download free app “Integrate Viewer” and scan the images above for related AR contents and audio.**

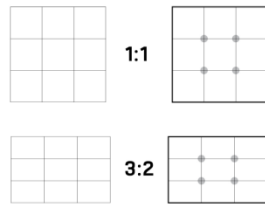




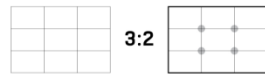
Class

Name

A Listen and check the words you hear in the video.



1:1



3:2



characteristic

ratio

practical

location

☐
☐
☐
☐

B Listen again and write the words you hear from the video in the blanks.

Welcome back to the Mega Math Podcast. I'm your host, Helen. On today's podcast, we're 1. _____ March 14th, or as we like to call it, Pi Day.

Pi is a special number with many unique 2. _____. The digits in pi actually go on forever, but perhaps what is even more amazing is that the 3. _____ in pi never repeat themselves. That's a lot of numbers to remember! Another way to think about this is that the numbers in pi go on forever, because there's no 4. _____ in them. Luckily, most of the time, knowing just the first several digits of pi is enough to solve common math problems.

An easy way to learn the first nine digits of pi is to 5. _____ this question: "May I have a large container of butter today?" If you count how many letters are in each word of that question, you can easily remember the first nine digits of pi. For example, "may" has three letters, "I," has one letter, and "have," has four letters. That gives us 314, which are the first three digits of pi. If you count all the letters in each word of the question "May I have a large 6. _____ of butter today?" you get the first nine digits of pi, which are 314159265. It's a piece of cake, right?

You can use pi to find the 7. _____ of a circle when you know the 8. _____.

So, for example, let's say you walk around a circle which has a diameter of 1 kilometer. How far have you walked? Pi times 1,000 meters = 3,141.59265 meters. So, basically, a little over 3 kilometers.

You can also use pi to find the diameter of something when you know the circumference. Diameter equals the circumference 9. _____ by pi. So let's say you have a straw and you measured the outside of it at 9 millimeters. What is the diameter of the straw? 9 millimeters divided by pi is about 2.865 millimeters.

I hope today's podcast was 10. _____ and helps you the next time you need to use pi. Happy Pi Day, everyone!

© After listening to and watching the video, choose the best title for the video.

Ⓐ Pi Day

Ⓑ Math Day

Ⓒ Diameter Day



Class

Name

A Listen and write the synonyms for words you hear in the video.



account



express



reduce



compound

B Listen again and fix the mistakes. Write the correct words from the video.

1. Hi again, it's me, Richard. Welcome back to my YouTube channel. In my last video, we learned how you can save more money with something called interest. In our example, we divided ratios.

→ _____

We also learned that we could earn \$50 by saving \$1,000 over ten years with five-percent interest. This is called simple interest.

2. In today's podcast, we'll learn about something called connect interest.

→ _____

But, before you decide to do anything with your money, talk to a professional who works at a bank. Let me explain how compound interest works. Compound interest gets calculated each year, and the amount you earn in interest grows after each year.

3. So let's say, I save \$100 every year over ten years. I also earn five-percent interest every

year. What's one hundred over one times one over twenty? It's one thousand over twenty, which, when lowered, is \$5.

→ _____

So, in year one, I would have \$105.

4. In year two, I start with \$105 and I save another \$100. So now, I have \$205. Then, I make five-digit interest on the \$205.

→ _____

What's two-hundred and five over one times one over twenty? It's \$10.25. So now, I have \$215.25. The amount of interest I earned in year one was \$5.

5. In year two, it grew to \$10.25. And it will continue to grow every year that I save money in the bank. So, with compound accounts, the amount of interest you earn each year grows bigger than the year before it.

→ _____

In our example, if you saved \$100 a year for ten years, with five-percent compound interest each year, you end up with \$1,320.68. Amazing, right?

This is why the genius, Albert Einstein, said: "Compound interest is the eighth wonder of the world. People who understand it, earn it, but people who don't, pay it."

Some people say money doesn't grow on trees, but now you know it can grow with compound interest. Thanks for watching, and see you in the next video!

© After listening to and watching the video, choose the best title for the video.

Ⓐ Five-Percent Interest

Ⓑ Simple Interest

Ⓒ Compound Interest



Class

Name

A Listen and check the words you hear in the video.



painting

☐


influential

☐


boring

☐


scene

☐

B Listen again and write the words you hear from the video in the blanks.

A: Well, those 1. _____ made of LEGO® bricks were pretty cool.

B: Yeah. Let's go check out the rest of the 2. _____.

A: Wow! Look at these 3. _____ and paintings. They look strange. What kind of art is this?

B: Hmm. The sign says it's called Surrealism. It says the name "Surrealism" comes from the words super-realism. Surrealism started as an art form around the 1920s. It's well known for having realistic-looking 4. _____, but with very strange objects and creatures in them. The idea of Surrealism is to mix things we might see in a dream and things that we see in reality, which is where the idea of "super-reality" and the name "surreality" comes from.

A: Cool. These 5. _____ are weird but also very interesting. This one looks like a clock that's melting. It kind of makes me think about the idea and meaning of time.

B: I think so, too. Hey, look over here! I recognize this. It's like street art or something.

A: Oh, yeah. The sign here says it's called 6. _____.

B: Right. I've seen this around the city, but I didn't know it was considered an art form. This is

cool!

A: Wow, there's so many interesting things to see at this exhibit.

B: Yeah, I will have a lot of stuff to write about in my 7._____ for Mrs. Blacksmith's class.

A: Absolutely. So, what kind of 8._____ at this exhibit is your favorite?

B: I guess the art made from LEGO® bricks is my favorite.

A: Me, too. Why do you like it?

B: I think it's cool, because LEGO® bricks remind me of when I was a kid. Also, I've never been good at painting, so art never really interested me. But, I did like building things with LEGO® bricks and using my 9._____, so I think I could make some 10._____ pieces of art with them if I tried.

A: Yeah, you should go for it!

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Ⓐ Interesting Art

Ⓑ Surrealism

Ⓒ Street Art

**Class****Name****A****Listen and write the synonyms for words you hear in the video.**

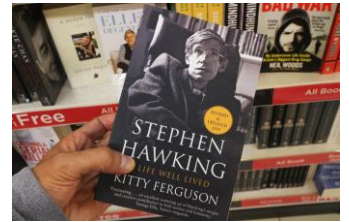
entire



audio



dusk



background

B**Listen again and fix the mistakes. Write the correct words from the video.**

1. Welcome back to this Sunday evening's episode of The Art of Our World. I'm your host, Sarah Walker. In part one of today's show, we looked at how VR is revolutionizing the way people look at art. VR can add a new layer to art, which includes movement, sound, and other boring things.

→ _____

This is forever changing the way we experience art from the past, the present, and even in the future.

2. In part two of today's show, we'll take a look at some of the ways that VR technology is being used to improve art education. VR isn't just changing the way we view art, it's also changing the way we teach and even create art. For example, can you imagine painting a picture without paint? This is possible through the use of VR. Some VR paintings are used to improve how art is taught in schools and universities.

→ _____

3. In these programs, students can learn to recreate a famous painting from the past. They

can even see and learn from more realistic examples of artworks. In this way, teachers can learn different styles and art forms.

→ _____

In addition to creating a more realistic experience for students, there are other advantages to using VR in the classroom. For example, if students are using VR to paint a picture and they make a mistake, they can easily fix it, which is not as easy to do when using real paint.

4. Another advantage is that schools can save money. While it's true that VR equipment is much more expensive than traditional art supplies, VR only needs to be purchased one time, whereas paint and other art supplies have to be purchased whenever they run out. Teachers also say that teaching art through VR has made most students in the whole class much more engaged and celebrated to learn than they used to be.

→ _____

5. Students can see examples of how to draw, learn more context information about art, and experience art education in a completely new way.

→ _____

The blending of technology with art gives a whole new meaning to the old phrase, the best of both worlds.

VR is still relatively new to the world of art, so it will be interesting to see how it continues to be used in exciting and different ways. Thanks for watching! Until next time, I'm Sarah Walker.

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Ⓐ Technology and Art

Ⓑ Famous Paintings

Ⓒ Art Techniques