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## Mastering\_ChatGPT\_for\_Beginners #3

### ChatGPT를 활용한 학습계획서 작성 / 창의적인 글의 평가와 피드백

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### 3.-Creating-Lesson-Plans (ChatGPT를 활용한 학습계획서 작성)

이번에서는 학교에서 아이들을 가르치는 교사가 학습계획서를 작성에 ChatGPT를 활용하는 방법에 대하여 살펴보겠습니다.

※ 영어로 질문을 하는 것이 한글로 질문하는 것보다 구체적인 답변을 하는 관계로 예제에서는 모든 질문을 한글을 영어로 번역하여 진행 하였음.

먼저, write a ~~ 구문을 통해 학습계획서 프레임을 작성해 보겠습니다

 write a lesson plan framework

 Sure, here's a basic lesson plan framework that you can use for any subject or grade level:  

level:

Subject:

Grade level:

Objectives:

- What specific knowledge, skills, or understanding do you want the students to achieve by the end of the lesson?

Materials:

- What resources or materials will you need for this lesson? This can include things like textbooks, handouts, technology, art supplies, etc.

Procedure:

제공되는 수업계획서 템플릿을 활용하여,

초등학교 수업에서 on the topic of ~~ 구문으로 분수를 주제로 구체적인 수업계획서를 작성하는 방법은 다음과 같습니다.

write a lesson plan for elementary school math class on the topic of fractions



write a lesson plan for elementary school math class on the topic of fractions



Sure, here's a lesson plan for an elementary school math class on the topic of fractions:

Grade Level: Elementary School (4th or 5th Grade)

Subject: Fractions

Lesson Objective: Students will be able to identify, compare, and order fractions with like and unlike denominators.

Materials Needed:

- Whiteboard or blackboard
- Markers or chalk
- Fraction manipulatives (e.g., fraction circles or tiles)
- Fraction worksheets

이번에는 같은 학습계획서를 고등학생을 대상으로 작성하도록 해보겠습니다..

now do the same lesson, but for high school student



now do the same lesson but for high school student



Sure, here's a lesson plan for a high school math class on the topic of fractions:



Grade Level: 9th-10th grade

Topic: Fractions

Duration: 60 minutes

Objective: Students will be able to understand the concept of fractions and how they represent a part of a whole. They will be able to identify and name fractions and represent them using visuals such as models and number lines. They will also be able to perform operations with fractions including addition, subtraction, multiplication, and division.

Materials Needed:

- Whiteboard and markers
- Visual aids such as fraction manipulatives, pictures, and number lines
- Handouts with fraction problems
- Calculators

Introduction (5 minutes):

- Begin by asking the students if they know what fractions are and if they have worked with them before.
- Write the definition of a fraction on the board and explain that fractions are used to represent parts of a whole.

이번에는 with questions and answers 구문을 주어 문제와 정답을 같이 작성해 보겠습니다.



write a maths lesson plan for high school student about fractions with questions and answers



Sure, here's a math lesson plan for high school students about fractions with questions and answers:



Grade Level: 9th-10th grade

Topic: Fractions

Duration: 60 minutes

Objective: Students will be able to understand the concept of fractions and how they represent a part of a whole. They will be able to identify and name fractions and represent them using visuals such as models and number lines. They will also be able to perform operations with fractions including addition, subtraction, multiplication, and division.

Materials Needed:

- Whiteboard and markers
- Visual aids such as fraction ma

Regenerate response

number lines

.. 중략

Sample Questions and Answers:

1. What is a fraction?  
Answer: A fraction is a number that represents a part of a whole.
2. What is the difference between the numerator and denominator of a fraction?  
Answer: The numerator is the top number of a fraction and represents the part of the whole that is being considered. The denominator is the bottom number of a fraction and represents the total number of equal parts that make up the whole.
3. How do you add and subtract fractions?  
Answer: To add or subtract fractions, you must first find a common denominator. Then, you can add or subtract the numerators and keep the common denominator.
4. What is an equivalent fraction?  
Answer: An equivalent fraction is a fraction that represents the same part of a whole as another fraction, but has a different numerator and denominator.
5. How do you multiply and divide fractions?  
Answer: To multiply fractions, you multiply the numerators and denominators separately. To divide fractions, you multiply the first fraction by the reciprocal of the second fraction.
6. How do you represent a fraction using a visual model?  
Answer: You can represent a fraction using a visual model such as a fraction manipulative, picture, or number line. For example, you can represent  $\frac{3}{4}$  using a picture of a pizza with 4 equal slices, shading in 3 of the slices.

만약 분수와 관련하여 실제 수학 문제를 Using~ 구문을 사용해서 분수 관련 문제와 답변 예제를 작성해 보겠습니다

now give example questions involving using fractions



now give example questions involving using fractions



Sure, here are some example questions involving using fractions for high school students:



1. Simplify the following fraction:  $24/36$ .  
Answer: The greatest common factor of 24 and 36 is 12. Divide both the numerator and denominator by 12 to get  $2/3$ .
2. Add the following fractions:  $2/5 + 1/3$ .  
Answer: To add fractions with different denominators, you must find a common denominator. In this case, the least common multiple of 5 and 3 is 15. Convert each fraction to have a denominator of 15:  $6/15 + 5/15 = 11/15$ .
3. Subtract the following fractions:  $5/8 - 1/4$ .  
Answer: To subtract fractions with different denominators, you must find a common denominator. In this case, the least common multiple of 8 and 4 is 8. Convert each fraction to have a denominator of 8:  $5/8 - 2/8 = 3/8$ .
4. Multiply the following fractions:  $3/4 \times 5/6$ .  
Answer: To multiply fractions, multiply the numerators and denominators separately.  $3/4 \times 5/6 = (3 \times 5) / (4 \times 6) = 15/24$ . Simplify the fraction by dividing both the numerator and denominator by their greatest common factor of 3 to get  $5/8$ .
5. Divide the following fractions:  $2/3 \div 1/5$ .  
Answer: To divide fractions, multiply the first fraction by the reciprocal of the second fraction.  $2/3 \div 1/5 = 2/3 \times 5/1 = 10/3$ . Simplify the fraction to a mixed number by dividing the numerator by the denominator:  $10/3 = 3 \frac{1}{3}$ .

Using the theme of를 사용하면 특정분야를 테마로 문제 출제도 가능합니다.

give an example question about fractions using the theme of Real Estate Sale



물건 매매를 주제로 한 분수 문제 예시를 드리겠습니다.



한 부동산 중개인이 집을 30만불에 팔았습니다. 중개인은 판매 가격의 4%에 해당하는 수수료를 받습니다. 중개인은 이 수수료를 중개업체와 동등하게 분할합니다. 이 경우 중개업체는 판매에서 얼마의 돈을 받을까요?

답변: 중개인의 수수료는 판매 가격의 4%인 12,000달러입니다. 그리고 중개인은 이 수수료를 중개업체와 동등하게 분할하기 때문에, 중개업체는 수수료의 반을 받습니다. 따라서 중개업체는 6,000달러를 받습니다.

판매 가격의 분수로 중개업체의 수수료를 표현하기 위해서는, 수수료를 판매 가격으로 나누면 됩니다:

$$6,000\text{달러} \div 30\text{만불} = 1/50$$

따라서, 중개업체는 집 판매 가격의  $1/50$ 에 해당하는 수수료를 받게 됩니다.

ChatGPT가 언어 모델의 장점은 같은 질문을 연령에 따라 수준별로 생성할 수 있습니다

now make the same questions but for the children age 9



9살 아이들을 위한 분수 문제 예시를 드리겠습니다.

1. 샘은 피자 4조각 중 3조각을 먹었습니다. 그는 피자의 어느 부분을 먹은 걸까요?

답변: 샘은 피자의  $\frac{3}{4}$ 를 먹었습니다.

2. 바구니 안에 12개의 사과가 있다. 그 중  $\frac{1}{3}$ 은 녹색입니다. 바구니 안에 녹색 사과가 몇 개 있을까요?

답변: 12의  $\frac{1}{3}$ 은 4입니다. 따라서 바구니 안에는 4개의 녹색 사과가 있습니다.

만약 만들어진 질문이 너무 쉽다고 생각될 때에는 다음과 같이 조금더 어려운 수준을 요구할 수 있습니다

that question was too easy, please give a harder one



더 어려운 분수 문제 예시를 드리겠습니다.



리본 한 조각은 24인치입니다. 이 중  $\frac{5}{8}$ 을 사용하여 프로젝트를 완성했다면, 남은 리본의 길이는 얼마인가요?

답변: 남은 리본의 길이를 구하려면, 사용된 리본의 길이를 전체 리본의 길이에서 빼주어야 합니다.

먼저, 프로젝트를 위해 사용된 리본의 길이를 구해야 합니다.

24인치 중  $\frac{5}{8}$ 을 사용했으므로 다음과 같이 계산할 수 있습니다.

$$\frac{5}{8} \times 24\text{인치} = 15\text{인치}$$

다음으로, 사용된 리본의 길이를 전체 리본의 길이에서 빼면 됩니다.

$$24\text{인치} - 15\text{인치} = 9\text{인치}$$

따라서, 남은 리본의 길이는 9인치입니다.



### 3.-Marking-and-Giving-Feedback 창의적인 글의 평가와 피드백

이번에서는 ChatGPT를 사용하여 창의적인 글의 작성, 창의적인 작문 대한 평가, 맞춤법 및 철자 오류의 수정 및 개선 등을 할 수 있는지를 살펴보도록 하겠습니다

부동산 마케팅업계에 종사하는 45살 남자가 쓴 글 스타일의 짧은 이야기를 써보겠습니다.



write a short story in the style of 45 year old tony, who has been working for real estate marketing industry.



Tony had been in the real estate marketing industry for over 20 years, and he had seen it all. From the boom of the early 2000s to the recession of 2008, he had weathered the storms and come out on top. He had worked with clients from all walks of life, from first-time homebuyers to seasoned investors, and had helped them all achieve their real estate goals. But this particular property was different. It spoke to him in a way that no other property ever had.

이 문장에서 몇 개의 맞춤법 문법 실수를 추가하고 ChatGPT에게 Mark the following short story ~~ give a list of poositives and a list of things to be improved in Syntax.구문을 통해 작업을 평가하도록 요청해 보겠습니다

Mark the following short story written by 45 year old tony, give a list of poositives and a list of things to be improved including Syntax.

Tony have been in the real estate marketing industry for over 20 year, and he had seen it all. From the boom of the early 2000s to the recession of 2008, he had weather the storms and come out on top. He worked with clients from all walks of life, from first-time home buyers to seasoned investors, and had helped them all achieve their real estate goals. But this particular property is different. It spoke to him in a way that no other property ever had.

일부러 문법적으로 에러를 낸 문장을 모두 완벽하게 찾아 낸 것을 알 수 있습니다.

심지어 질문에서 positives 를 ositives로 입력하여도 문맥에 따라 답변에서는 positives로 답변을 하고 있습니다.



Mark the following short story written by 45 year old tony, give a list of positives and a list of things to be improved in syntax

Tony have been in the real estate marketing industry for over 20 year, and he had seen it all. From the boom of the early 2000s to the recession of 2008, he had weather the storms and come out on top. He worked with clients from all walks of life, from first-time home buyers to seasoned investors, and had helped them all achieve their real estate goals. But this particular property is different. It spoke to him in a way that no other property ever had.



Positives:



- The story has a clear narrative structure and a consistent tone.
- Tony's experience in the real estate industry is effectively conveyed through concise and informative sentences.
- The short story contains a simple and direct language that is easy to understand.

Areas to be improved:

- The first sentence is missing an auxiliary verb, it should read "Tony has been in the real estate marketing industry for over 20 years".
- The sentence "From the boom of the early 2000s to the recession of 2008, he had weather the storms and come out on top" could be improved by changing it to "From the boom of the early 2000s to the recession of 2008, he weathered the storms and came out on top."
- The sentence "He worked with clients from all walks of life, from first-time home buyers to seasoned investors, and had helped them all achieve their real estate goals" could be improved by breaking it up into two sentences, for better flow.
- The sentence "But this particular property is different" could be expanded upon to provide more detail and interest to the reader.
- The sentence "It spoke to him in a way that no other property ever had" could be

🔄 Regenerate response

위의 글을 다시 8살짜리 꼬마가 쓴 것처럼 작성하라고 하면 다음과 같이 작성하는 것을 알 수 있습니다

rewrite the story as an younger child,  
who is 8 years and much more inexperienced at creative writing



rewrite the story as an younger child, who is 8 years and much more inexperienced at creative writing

Tony have been in the real estate marketing industry for over 20 year, and he had seen it all. From the boom of the early 2000s to the recession of 2008, he had weather the storms and come out on top. He worked with clients from all walks of life, from first-time home buyers to seasoned investors, and had helped them all achieve their real estate goals. But this particular property is different. It spoke to him in a way that no other property ever had.



Once upon a time, there was a man named Tony. He worked in something called the "real estate marketing industry" for a really long time - more than 20 years! He saw all kinds of things, like a big "boom" and a bad "recession" in the year 2008. Tony helped people find homes, from those who were buying a home for the first time to people who already had a lot of homes. He was really good at it, too! But there was something special about this one house that he saw. It made him feel a certain way that no other house had before.

ChatGPT는 모든 맞춤법 오류를 찾아내고 이야기를 재작성할 수 있음을 살펴봤습니다 교사는 ChatGPT로 학생들의 작업을 채점하거나 보다 서술적인 언어를 사용하여 그들이 작성한 결과물을 재작성에 활용할 수 있습니다, 이처럼 ChatGPT는 영어 실력을 향상시키는 학습도구로 활용할 수 있을 것입니다



영어 독해를 위해 대학교 1학년 수준 독해든지 5개를 난이도 중간으로 출제



다음은 대학교 1학년 수준의 독해 문제 5개입니다. 이 문제들은 난이도 중간 정도로 구성되어 있습니다.

1. The British Museum is one of the largest museums in the world. It is located in London and has a vast collection of over 8 million objects. Which of the following statements is true according to the passage?
  - a) The British Museum is located in Paris.
  - b) The British Museum is one of the smallest museums in the world.
  - c) The British Museum has a collection of over 8 million objects.
  - d) The British Museum does not have any objects.
2. The Industrial Revolution was a period of great change that began in the 18th century. It started in Great Britain and spread to other parts of the world. During this time, new machines and technologies were invented that transformed the way people worked. Which of the following statements is NOT true according to the passage?
  - a) The Industrial Revolution began in the 18th century.
  - b) The Industrial Revolution started in Great Britain.
  - c) The Industrial Revolution did not change the way people worked.
  - d) New machines and technologies were invented during the Industrial Revolution.





위 문제의 정답을 알려줘



아래는 대학교 1학년 수준의 독해 문제 5개와 각각의 정답입니다.



1. c) The British Museum has a collection of over 8 million objects.
2. c) The Industrial Revolution did not change the way people worked.
3. d) Jane Austen wrote *Pride and Prejudice* and *Sense and Sensibility*.
4. c) The Great Wall of China is a popular tourist attraction today.
5. c) Albert Einstein is famous for his theory of relativity and his equation  $E=mc^2$ .

위 문제들은 모두 주어진 정보를 이해하고 그에 따른 질문에 답하는 데 중점이 있습니다. 문제의 어려운 정도는 난이도 중간 정도이며, 적절한 연습으로 이해를 높일 수 있습니다.



고등학교 1학년 수준의 미분 문제 2개를 난이도 하 난이도 중 난이도 상으로 각각 출제



다음은 고등학교 1학년 수준의 미분 문제 2개입니다.



난이도 하:

1. 함수  $f(x) = x^2$ 에서  $x = 2$ 에서의 순간 변화율을 구하세요.

해답:

함수  $f(x) = x^2$ 의 도함수는  $f'(x) = 2x$ 입니다.

따라서,  $x = 2$ 에서의 순간 변화율은  $f'(2) = 4$ 입니다.

난이도 중:

2. 함수  $f(x) = x^3 - 3x^2 + 2x$ 에서 극솟값과 최솟값을 구하세요.