PIRLS Category-specific Question Generation for Reading Comprehension

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Abstract

According to the internationally recognized PIRLS (Progress in International Reading Literacy Study) assessment standards, reading comprehension questions should encompass all four comprehension processes: retrieval, inferencing, integrating and evaluation. This paper investigates whether Large Language Models can produce high-quality questions for each of these categories. Human assessment on a Chinese dataset shows that GPT-40 can generate usable and category-specific questions, ranging from 74% to 90% accuracy depending on the category.

1 Introduction

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Given the importance of asking questions for effective learning (Dillon, 2006; Etemadzadeh et al., 2013; Kurdi et al., 2020), there has been extensive effort in developing automatic Question Generation (QG) models to produce high-quality questions for reading materials in educational systems (Heilman and Smith, 2010; Lindberg et al., 2013). Through automatic creation of pedagogical and assessment material, QG benefits teachers by reducing their workload. It also levels the playing field for students, providing them with instant and free access to questions for review and practice.

According to PIRLS (Progress in International Reading Literacy Study), reading requires four comprehension processes: retrieval, inferencing, integrating and evaluation (Mullis and Martin, 2019) (Table 1). A balanced set of questions, involving all four processes, is therefore needed to assess reading comprehension. However, existing QG benchmarks such as SQuAD (Rajpurkar et al., 2016) mostly focus on factoid short-answer questions.

This paper investigates question generation of the four PIRLS categories with Large Language Models (LLMs) using zero-shot, few-shot and finetuning approaches. Our contribution is two-fold. In

Process	Description	
Retrieval	Focus on and Retrieve Explicitly	
	Stated Information	
Inferencing	Make Straightforward Inferences	
Integrating	Interpret and Integrate Ideas and	
	Information	
Evaluation	Evaluate and Critique Content	
	and Textual Elements	

Table 1: Comprehension processes in reading according to PIRLS (Mullis and Martin, 2019)

this first attempt of QG based on PIRLS, an internationally recognized standard for reading comprehension assessment, we show that GPT-40 can generate high-quality questions with category-specific prompts. Second, we contribute a dataset of Chinese passages and questions, annotated with PIRLS categories, that may serve as a benchmark for future research.

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2 Previous work

Early QG approaches mostly relied on heuristics, linguistic templates and rules (Labutov et al., 2015; Mostow et al., 2016). With the availability of large-scale datasets, QG began to be formulated as a sequence-to-sequence generation task. An encoder-decoder architecture with a global attention mechanism was found to be effective (Du et al., 2017; Kim et al., 2019), but can be further improved with transformer-based approaches (Scialom et al., 2019), and fully finetuned language models (LM) (Xiao et al., 2021). Answer-agnostic QG can be performed via joint Question and Answer Generation (QAG) (Lewis et al., 2021). A QAG model based on fine-tuning encoder-decoder LMs produces high-quality questions (Ushio et al., 2022), but has not been evaluated in terms of question type. The most recent research has adopted LLMs. On a textbook dataset, Excerpt of input passage (in Chinese):

太阳和地球虽然相距1.5亿公里, 但它却会提供光和热。除此以外, 它还会给地球带来 意想不到的"礼物"呢! 其实太阳的表面常常发生爆炸, 在最活跃的时候, 更会把表面的物质 抛射出去, 形成太阳风暴。当太阳风暴经过地球时, 不但会损毁人造卫星, 干扰无线电通讯, ... Even though the Sun is 150 million kilometers away from Earth, it provides light and heat. Besides, it also gives a surprising 'gift' to Earth! There are frequent explosions on the surface of the Sun ... forming solar storms. When a solar storm passes by the Earth, it not only destroys satellites and interfere with wireless communication....

interfere with	whereas communication,
Туре	Example Question
Retrieval:	太阳和地球虽然相距一亿五千万公里,但它却会提供什么?
word-match	Even though the Sun is 150 million kilometers away from Earth, What does it provide?
Retrieval:	文章提到太阳和地球之间的距离是多少?
paraphrase	What is the distance between the sun and the Earth, as mentioned in the passage?
Inferenc-	根据文章,太阳爆炸造成的"太阳风暴"会对地球造成哪些影响?
ing	How is the Earth affected by the solar storms caused by explosions on the Sun?
Integrat-	文章中提到太阳常常发生爆炸会带来什么「礼物」?
ing	According to the passage, what 'gift' is brought by the frequent explosions at the Sun?
Evaluat-	作者认为太阳的影响对地球有什么优势和缺陷
ion	What does the author think are the Sun's positive and negative impact on the Earth?

Table 2: Example input passage and output questions of each PIRLS question type (Section 4)

few-shot prompting with GPT-3 was able to generate human-like questions ready for classroom use (Wang et al., 2022). A fine-tuned version of ChatGPT was able to generate questions that are competitive with human ones in terms of readability, correctness, coherence and engagement (Xiao et al., 2023).

The research most closely to ours was reported by Elkins et al. (2024). GPT-3.5 was prompted to generate six kinds of questions based on Bloom's taxonomy (Krathwohl, 2002). In an evaluation using Wikipedia passages on biology and machine learning, the generated questions were shown to be highly semantically relevant, fluent, and answerable. For questions generated with InstructGPT reported by Elkins et al. (2023), the accuracy in question category varies from only 36.1%-40.0% for the 'creating' category, but higher for the more objective categories such as 83.3% to 91.7% for the 'remembering' category. Our study uses PIRLS, a framework that focuses more specifically on gradeschool reading comprehension than Bloom's. Further, we reported the effect of fine-tuning LLMs and contribute a dataset in Chinese, which has more limited resources for OG.

3 Dataset

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Existing reading comprehension datasets in Chinese, such as the Delta Reading Comprehension Dataset¹ and DuReader², are primarily drawn from newspapers, Wikipedia and user logs. Further, the questions are not annotated with their categories. We therefore constructed new datasets³ using Chinese-language pedagogical materials:

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- **Training set** The fine-tuning data consists of 804 manually composed questions about 72 passages taken from published Chinese story books. There are 201 questions at each PIRLS category.⁴ The average passage length is 1,131 Chinese characters.
- **Test set** The test set consists of 50 passages from a public reading comprehension assessment⁵, with 25 passages from Grade 3 and 25 from Grade 6. The average passage length is 648 Chinese characters.

4 Annotation Scheme

According to the International Association for the Evaluation of Educational Achievement, a reading

¹https://github.com/DRCKnowledgeTeam/DRCD

²https://github.com/baidu/DuReader

³The test set will be made available at http://anonymous. Due to copyright issues, the training set will be made available for research purposes upon contact with the last author.

⁴181 questions were used for training and 20 for validation.

⁵Downloaded from the website of the Territory-wide System Assessment (TSA) https://www.bca.hkeaa.edu.hk/web/TSA/en/\PriPaperSchema.html.

114	comprehension question should address the follow-
115	ing comprehension processes, as defined in the
116	PIRLS standards (Table 1):

- 117 Retrieval The answer is explicitly given in a text118 span in the passage.
 - **Inferencing** Answering the question requires inferences about ideas or information that is not explicitly stated.
 - **Integrating** Answering the question "requires comprehension of the entire text, or at least significant portions of it." (Mullis and Martin, 2019)
 - **Evaluation** The answer "involves a judgement about some aspect of the text", and is not necessarily found in the passage.
 - Example questions can be found in Table 2.⁶

5 Approach

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The input is a Chinese text, without any specified answer span. We used two LLMs — GPT-4 o^7 and *LLaMa-3* (Cui and Yao, 2024)⁸ to generate questions⁹ for the text, using the following prompts:

Zero-shot As shown in Table 6, for each of the four PIRLS category, a different prompt describing the requirements of the category is used.¹⁰

Generic This is the same as the zero-shot approach, except that the prompt does not specify the question category:

[Translation: "Based on the given passage, create a short-answer question and provide a corresponding answer. Passage: <input>]

Few-shot The PIRLS category-specific prompt used in zero-shot above is accompanied with

Model	Unus-	Usable	
	able	minor	wo/
		rev.	rev.
Llama-3 (generic)	4%	24%	72%
Llama-3 (zero-shot)	4%	17.5%	78.5%
Llama-3 (few-shot)	14%	15%	71%
Llama-3 (fine-tuned)	15%	26.5%	58.5%
GPT-40 (generic)	2%	10%	88%
GPT-40 (zero-shot)	0%	4%	96%

Table 3: Evaluation results on usability using the scale defined in Section 6

an input passage and N sample questions, according to the template in Table 8 (Appendix B). We set N = 5, with a sample passage and five questions taken from the training set. 150

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Fine-tuned We fine-tuned LLaMa-3, an opensource LLM, with the PIRLS categoryspecific prompts Table 6 on the training set (Section 3).¹¹

For each passage in the test set, a question was generated from each prompt type described above.

6 Evaluation set-up

Four assessors, all native Chinese speakers with a bachelor's degree, annotated each generated question on its *usability* and *PIRLS category*. The order of the questions was randomized to avoid bias. Each question was independently evaluated by two of the assessors. In case of disagreement, a PIRLS expert with a Master's degree in Education, adjudicated the decision.

First, the assessors rated the quality of the question on the following three-point scale:

- **Usable without revision** The question can be used as is: it is grammatical, fluent, and relevant for the input passage.
- **Usable with minor revision** The question is relevant for the input passage, but requires improvement in its linguistic quality, e.g., correction of grammatical errors, better vocabulary choice or phrasing.

基於所提供的文章,請創作一個 簡答題,並提供對應的答案。 文章:<input>

⁶The Chinese passage is taken from a Chinese-language public examinations at https://www.hkeaa.edu.hk/en/sa_tsa/

⁴https://openai.com/index/hello-gpt-4o/ ⁸Chinese 8B Instruct-y1 dow

⁸Chinese 8B Instruct-v1, downloaded from https://huggingface.co/hfl/llama-3-chinese-8b-instruct

⁹max_tokens=200; temperature=0.6; top_p=0.9

¹⁰In all experiments, if multiple questions were generated, only the first one was kept. Regardless of whether the question was without an answer or invalid, we kept the output, and none of the questions were regenerated.

¹¹The fine-tuning was performed for 1 epoch using the following hyperparameters: learning rate=1e-4; lora_rank=64; lora_alpha=128; lora_dropout=0.05; batch_size = 1; gradient_accumulation_steps=8; max_seq_length=3303. On an A100 GPU, the training took 4 minutes and 34 seconds.

Model	PIRLS category				Average
	Retrieval	Inferencing	Integrating	Evaluation	
Llama-3 (generic)	56%	32%	8%	0%	24%
Llama-3 (zero-shot)	78%	40%	22%	20%	40%
Llama-3 (few-shot)	82%	26%	10%	4%	30.5%
Llama-3 (fine-tuned)	68%	42%	10%	34%	38.5%
GPT-40 (generic)	54%	32%	12%	0%	24.5%
GPT-40 (zero-shot)	86%	74%	78%	90%	82%

Table 4: Accuracy in question category

Category	Retrieval	Infer.	Integr.	Eval.
Retrieval	43	6	1	0
Infer.	8	37	3	2
Integr.	0	3	39	8
Eval.	0	0	5	45

Table 5: Confusion matrix of the PIRLS category of thequestions generated by GPT-40 (zero-shot)

Unusable The question is irrelevant for the passage, or cannot be understood.

Second, the usable questions (either without revision or with minor revision) were classified in terms of PIRLS question type (Section

7 Results

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7.1 Question Usability

The four assessors agreed on 90% of questions on the usable vs. unusable classification, leading to a 0.499 Kappa score, a "moderate" level of agreement (Landis and Koch, 1977).

Among questions generated by Llama-3 with the generic prompt, 72% were usable without revision. The use of category-specific prompts, which supply more detailed instructions, increased the proportion of directly usable questions to 78.5%. Providing examples through few-shot and fine-tuning resulted in more unusable questions. Anecdotal examination suggests that the model was led to overly prefer the wording in the given samples, even if it results in unnatural questions.

On GPT-40, the category-specific prompts also led to gains in usability over the generic one. Overall, GPT-40 attained substantially superior performance, with a vast majority of the generated questions (96%) annotated as directly usable.

7.2 Question category

Excluding the unusable questions, the assessors agreed on 55.17% of the generated questions on

the 4-way classification of PIRLS category. This yielded a 0.494 weighted kappa score, a "moderate" level of agreement (Landis and Koch, 1977).

The generic prompt produced mostly 'retrieval' questions on both Llama-3 (56%) and GPT-40 (54%). It would be highly inefficient, however, for users looking for 'Inferencing' and 'Integrating' questions. The category-specific (zero-shot) prompts improved the accuracy across all categories raising the average accuracy to 40% for Llama-3 and 82% for GPT-40. This result suggests that both models were able to understood the instructions in the prompt.

On Llama-3, the few-shot approach improved the generation of 'retrieval' questions to 82%. The five samples, however, may not have been sufficient for the higher-order categories, resulting in lower accuracy. The larger quantity of training data likely enabled the fine-tuned model to perform better at two of the higher-order categories, namely 'Inferencing' and 'Evaluation'. The overall accuracy, however, was still offset by the other two categories.

The GPT-40 zero-shot approach offers the best performance in all categories, with an average of 82% accuracy. As shown in the confusion matrix (Table 5), most errors were within one category above or below the target in the PIRLS scale.

8 Conclusion

In assessing reading comprehension, it is important to use questions that target various comprehension processes. This paper has presented the first study on automatic question generation for reading comprehension based on the four categories in the PIRLS framework. Experiments on Chinese passages show that zero-shot GPT-40 can produce questions belonging to the target category at 74% to 90% accuracy, outperforming both the zero-shot and fine-tuned LLaMA-3 model.

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9 Limitations and Ethics Consideration

The evaluation has focused on the quality of the questions, but cannot show their pedagogical impact on the students. At the time of system deployment, users should be clearly informed that the automatically generated questions should be viewed only as a first draft, to minimize the risk that the teacher may fail to edit an unusable question and pass it to students.

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A Appendix: Instruction to Human Assessors

The human assessors gave consent to the data collection and were informed that the results would remain anonymous. They were shown the following instructions:

> <passage> <question>

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- question/
- 1. Is the question understandable and relevant for the passage?
- 2. Does the language quality of the question need to be improved?
- 3. If the answer to #1 is "Yes", choose one of the categories for the question:
 - Retrieval (Focus on and Retrieve Explicitly Stated Information)
 - Inferencing (Make Straightforward Inferences)
 - Integrating (Interpret and Integrate Ideas and Information)
 - Evaluation (Evaluate and Critique Content Textual Elements)

B Appendix: Few-shot prompt template

The few-shot template is shown in Table 8.

Туре	Prompt (in Chinese)
System prompt	你是一個能幹的閱讀理解問題生成器,始終遵循給定的説明和要求來 生成問題。
Retrieval questions (PIRLS level 1)	基於所提供的文章,請創作一個屬於PIRLS第一層次的簡答題,並提 供對應的答案。這個問題應著重於檢索文本中明確表述的信息,也就 是資訊檢索型的問題。此類問題要求考生識別和回憶文本中明確提到 的信息,如事件的順序、角色的特徵或進行比較等。 文章:{input passage}
Inferencing questions (PIRLS level 2)	基於所提供的文章,請創作一個屬於PIRLS第二層次的簡答題,並提 供對應的答案。這個問題應鼓勵考生從文本中進行直接推理,進一步 超越單純的信息提取,也就是需要進行簡單推理的問題。這類問題需 要考生進行直接推理,例如理解因果關係或推測未明確陳述但可以從 文本邏輯推導出的結果。 文章:{input passage}
Integrating questions (PIRLS level 3)	基於所提供的文章,請創作一個屬於PIRLS第三層次的簡答題,並提 供對應的答案。這個問題應促使考生解釋想法並整合文本不同部分信 息,也就是需要進行解釋及整合的問題。這類問題需要考生全面理解 並能夠從文本的不同部分綜合信息,如解釋角色的感受和行為,並整 合文本中的想法和信息。 文章:{input passage}
Evaluation questions (PIRLS level 4)	基於所提供的文章,請創作一個屬於PIRLS第四層次的簡答題,並提 供對應的答案。這個問題應需要考生批判性地檢視和評估文本內容、 語言和文本元素,也就是評鑒型的問題。這類問題是最高層次的問 題,問題挑戰考生批判性地評估文本的內容、語言和文本元素,如對 價值、期望和接受度作出判斷,或考慮他們如果處於某個角色的位置 會如何反應。 文章:{input passage}

Table 6: LLM prompts for generating questions for each PIRLS category

Туре	Prompt (in English)
System prompt	You are a capable reading comprehension question generator, always following the given instructions and requirements to generate questions.
Retrieval questions (PIRLS level 1)	Based on the article provided, please create a short answer question belonging to PIRLS level 1 and provide the corresponding answer. This question should focus on retrieving information explicitly stated in the text, i.e. an information retrieval type question. This kind of question requires candidates to identify and recall information explicitly mentioned in the text, such as the sequence of events, character traits, or making comparisons. article:{input passage}
Inferencing questions (PIRLS level 2)	Based on the article provided, please create a short answer question belonging to PIRLS level 2 and provide the corresponding answer. This question should encourage candidates to make straightforward inferences from the article, moving further beyond information retrieval, i.e. a question requiring simple inferences. This type of question requires candidates to make straightforward inferences, such as understanding cause and effect relationships or inferring consequences that are not explicitly stated but can be logically deduced from the text. article:{input passage}
Integrating questions (PIRLS level 3)	Based on the article provided, please create a short answer question belonging to the PIRLS level 3 and provide the corresponding answer. This question should prompt the candidate to interpret ideas and integrate information from different parts of the text, i.e. a question that requires interpretation and integration. This type of question requires candidates to have a comprehensive understanding and be able to integrate information from different parts of the text, such as explaining a character's feelings and actions, and integrating ideas and information across the text. article:{input passage}
Evaluation questions (PIRLS level 4)	Based on the article provided, please create a short answer question belonging to PIRLS level 4 and provide the corresponding answer. This question should require candidates to critically examine and evaluate the text content, language, and textual elements, i.e. an evaluative question. This type of question is the highest-level question that challenges candidates to critically evaluate a text content, language, and textual elements, such as making judgments about value, desirability, and acceptability or considering how they would react if they were in a character's position. article:{input passage}

Table 7: LLM prompts for generating questions for each PIRLS category (translated)

{category-specific prompt} 範例文章及相應的範例問題(請參考範例來創作問題):{範例文章:{example passage} PIRLS第{required level}層次範例問題1:{example question-answer pair 1} ...

PIRLS第{required level}層次範例問題5:{example question-answer pair 5}} 文章: {input passage}

 Table 8: Prompt template for few-shot question generation