

UNIT 3

Section A Starting out & Understanding ideas

英语





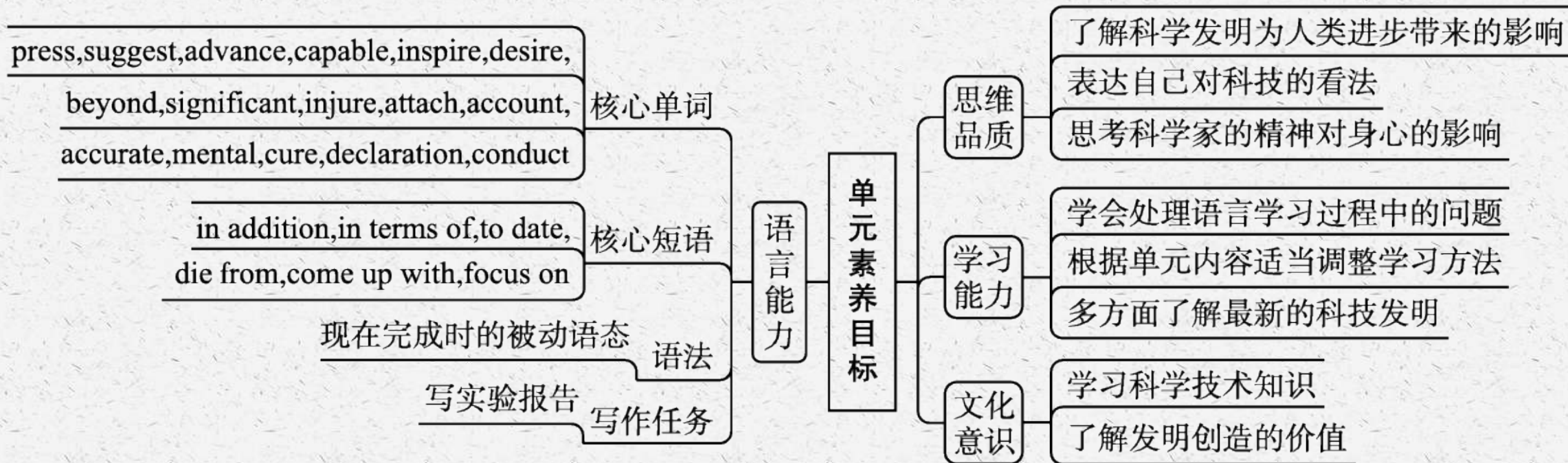
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晨读晚诵

Four years ago, more than 700 computer scientists **competed**^① in a contest to build artificial intelligence (AI) that could pass an 8-grade science exam. They all **flunked**^②. Even the most developed system couldn't score higher than 60 points on the test. AI can't match the language and logic skills that students are expected to have when they enter middle school.



Later, a system named Aristo was developed by the Allen Institute for Artificial Intelligence, a lab in the US. It recently passed an 8-grade science exam taken by many US students, *the New York Times* reported. It correctly answered more than 90% of the questions. Then it was given a 12-grade exam and it scored more than 80 points. Aristo was able to pass the exam because it can not only understand language but also use **logical**^③ thinking to solve difficult problems. For example, it can understand what a forest fire is and how it could affect animals like rabbits. The Aristo system used Bert, a kind of technology developed by Google, to answer the questions. Bert has “read” thousands of Wikipedia **articles**^④ and books. If it looks at a sentence with a missing word, it can correctly guess what the word is. With the help of Bert, Aristo has “read” a lot of science questions and answers. Over time, it was able to find logical **patterns**^⑤ on its own.

Aristo's success means that AI systems are getting better at understanding language and even **responding**^⑥ to

language. However, we can't compare this technology to real human students and their logical ability, said Jingjing Liu, a Microsoft researcher, who has been working on similar technologies.

词海拾贝

- ① **compete** *v.* 竞争;参加比赛(或竞赛)
- ② **flunk** *v.* (考试、测验等)失败,不及格
- ③ **logical** *adj.* 符合逻辑的;按照逻辑的
- ④ **article** *n.* (报刊上的)文章
- ⑤ **pattern** *n.* 模式;方式
- ⑥ **respond** *v.* 回答,回应;作出反应

典句欣赏

AI can't match the language and logic skills that students are expected to have when they enter middle school.

译文:人工智能无法与学生进入中学时应该掌握的语言和逻辑技能相匹配。

分析:AI can't match the language and logic skills是主句,that students are expected to have是定语从句,when they enter middle school是时间状语从句。

探究思辨

1. Why was Aristo developed?

2. What do Jingjing Liu's words show?

答案 1. To improve the logical skills of AI.

2. Aristo's logical ability still needs improving.



课前篇 自主预习

I. 知识体系图解

重点词汇

写作词汇

1.press *v.* 按

2.shoot *v.* 射出(光;亮等),放射

3.gunpowder *n.* 火药

4.compass *n.* 指南针,罗盘

5.virtual *adj.* 虚拟的,模拟的

阅读词汇

6. flexible *adj.* 易弯曲的, 柔韧的
7. battery *n.* 电池
8. capable *adj.* 有能力的
9. stuff *n.* 东西, 物品
10. desire *n.* 渴望, 欲望

拓展词汇

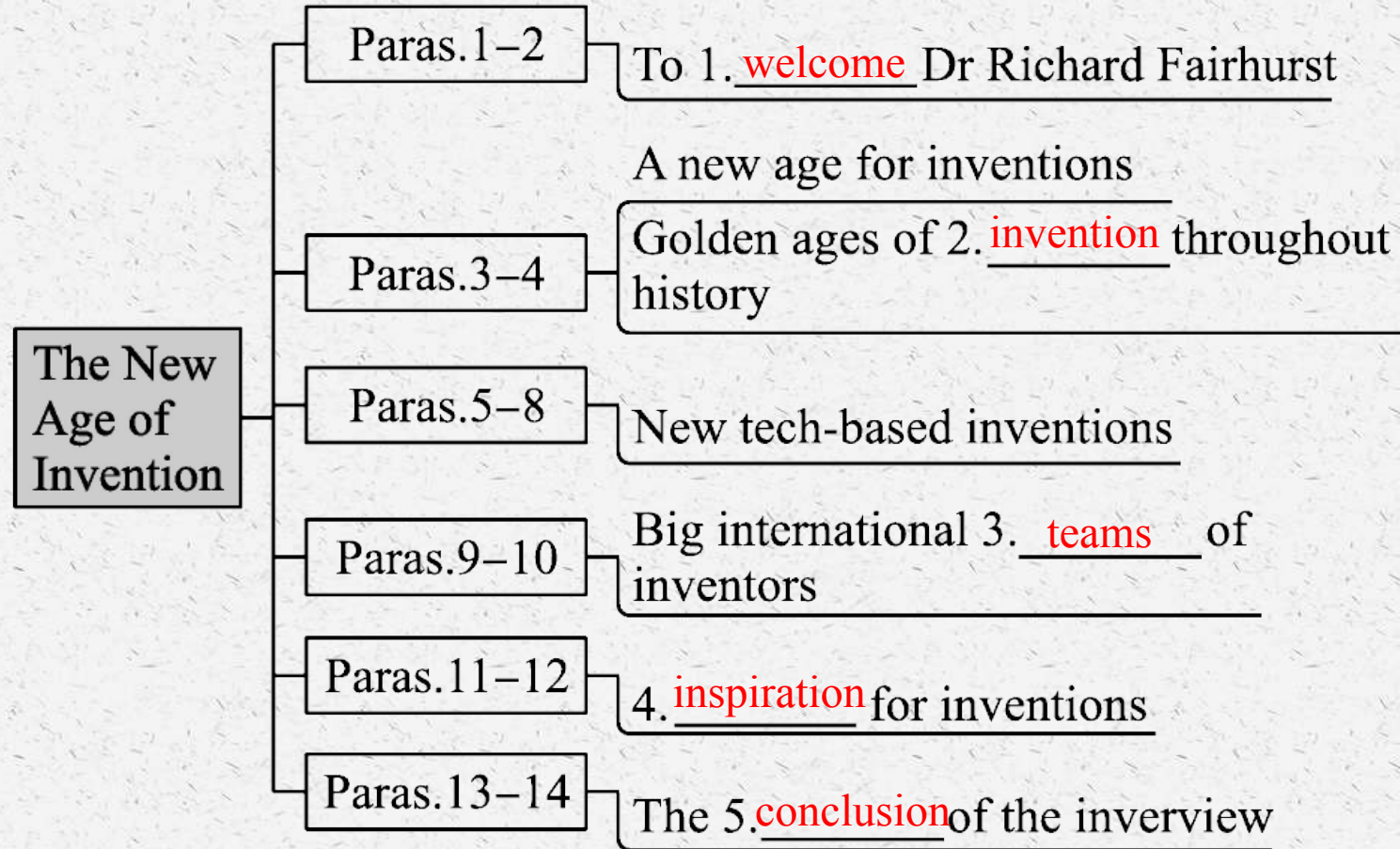
11. compute *v.* 计算 → *computer* *n.* 计算机

重点短语

1. ask about 询问关于.....的情况
2. virtual reality 虚拟现实
3. wearable tech 可穿戴技术
4. as well as 也,又,和
5. in addition 此外
6. thanks to 幸亏,由于
7. in terms of 就.....而言,从.....方面来说

8. start with 以.....开始
9. be capable of 能够
10. what's more 此外,另外
11. work as 充当,担任
12. lead to 导致
13. never say never 别轻易说决不
14. in one's opinion 在某人看来

II. 根据P26-P27课文内容, 厘清文章结构。





课堂篇 互动探究

重点词汇

1 For example, **advances** in virtual reality and wearable tech, as well as the flexible battery, mean we should soon be seeing further developments. (教材 P26) 例如, 虚拟现实和可穿戴技术以及柔性电池技术领域的进步意味着我们在不久的将来就会看到科技的进一步发展。

◆ **advance** *n.* 进步, 进展; 预先 *v.* 前进; 促进; 提前

The manager was quite satisfied with the **advance** of the project.

经理对项目的进展相当满意。

【词汇拓展】

advance on/towards 朝着.....前进

make advances in 在.....方面取得进步

in advance 预先,提前

advanced *adj.* 高级的,先进的

According to the weather report, a storm is **advancing towards** the city.

根据天气预报报道,一场暴风雨正向这座城市逼近。

Great **advances** in artificial intelligence have been made in the past 20 years.

在过去的20年里,人工智能领域取得了很大进步。

I'd appreciate it if you could let me know whether you are available **in advance**.

如果你能提前告知我你是否有空,我将感激不尽。

Having shown you around our school, we will introduce our most **advanced** science lab to you.

我们带领你们参观完学校后,将为大家介绍我们学校最先进的科学实验室。

【迁移应用】

单句填空

(1) It is suggested that you book your ticket online in advance.

(2) The science and technology-based theme park uses the most advanced (advance) technology.

(3) Researchers have made major advances (advance) in developing a new medicine.

2In addition,important advances have been made in medicine and environmental science thanks to increasing computer power.(教材P27)此外,由于计算机能力的增长,医学和环境科学领域取得了重要的进步。

◆ in addition除此之外,另外

In addition,there are famous artists who will perform how to cut paper on the spot.

此外,一些著名的艺术家还会现场进行剪纸表演。

【词汇拓展】

in addition to 除.....之外(还有,也)

additional *adj.* 附加的;额外的;外加的

additionally *adv.* 另外,此外

In addition to giving a general introduction to computers, the course also provides practical experience.

课程除了介绍一般电脑知识外,还提供实际操作的机会。

The government provided an **additional** £ 25 million to support the project.

政府另拨2 500万英镑用于支持该项目。

★名师点睛

in addition 相当于一个副词,表示递进关系,后面跟逗号。**in addition to** 是一个介词短语,后面接名词或动词-*ing*形式。

【迁移应用】

用**in addition**或**in addition to**填空

(1) In addition to native plants, this garden contains trees and flowers from overseas.

(2) In addition, I am willing to help those in need.

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