

LIGHT REFRACTION MAGIC!

WHAT YOU'LL NEED

- A piece of paper
- A marker
- A clear glass
- Water

STEPS TO UNVEIL THE MAGIC

1 CREATE YOUR ARTWORK:
Grab your sheet of paper and draw two large arrows on it. Position one near the top and the other near the bottom, making sure both arrows point in the same direction. This is where your artistic flair meets science!

2 PREPARE THE GLASS:
Fill your clear glass with water. This isn't just any glass of water; it's about to become a magical tool in our experiment.

3 THE REVEAL:
Slowly lower the piece of paper behind the filled glass. Now, take a moment and look through the glass of water at your arrows. Prepare to be amazed as you witness the direction of the arrows seemingly change right before your eyes!

SCIENCE IS ALL AROUND US - SEE THE MAGIC FOR YOURSELF

7 Which is the correct order in the "Light Refraction Magic" experiment?

A Draw the arrows while you are looking through the glass, and fill the glass before using it.

B Fill the glass after you look through it, and place the paper before you draw the arrows.

C Draw arrows before filling the glass, then look through the glass after placing the paper.

In Malaysia, family is the root of society. Most families gather during festivals, birthdays, or special occasions to share meals and stories. Parents teach their children important values such as respect, honesty, and responsibility. Extended family members, including grandparents, aunts, and uncles, often play an important role in guiding the younger generation. These interactions help strengthen family bonds and promote social harmony.

8 The passage suggests that...

A family plays an important role in teaching values and promoting unity.

B family members are responsible for guiding and interacting with children.

C family gatherings are important for sharing stories and values.

Part 3

Questions 19 to 26

You are going to read a story about Farid, a smart home resident. For **questions 19-26,** *choose the correct answer* **(A, B, C,** *or* **D)** *and mark the correct letter* **A, B, C,** *or* **D** *on your answer sheet.*

It is the year 2035, and seventeen-year-old Farid is riding his electric motorcycle home from school. As he arrives at his family's wooden house in Baling, Kedah, the front door unlocks automatically as soon as he rides through the gate. The ceiling fans in his living room also switch on independently through motion sensor. How is this possible? That's because Farid and his family live in a rural smart home supported by an intelligent system called "RumAI". The system helps Farid's family control electricity, water, and fuel use in a careful and organised way.

In the near future, smart homes will not only be found in big cities such as Kuala Lumpur or Penang. In many rural areas across Malaysia, families are also living in smart homes. However, these homes are designed differently. They are connected to electricity and clean water supply, but they focus on reducing energy use, saving water, and lowering carbon emissions. The aim is to build a home that is modern, safe, and environmentally friendly.

Farid's house was built with natural cooling in mind. Large windows allow fresh air to flow through the rooms. The roof reflects heat, and the walls are made from materials that keep the indoor temperature stable. Because of this design, the family rarely uses air-conditioning. The system checks both indoor and outdoor conditions before making changes. This reduces electricity use and keeps the home comfortable.

Another feature of RumAI is it can manage the house lighting. During the day, curtains open to let in sunlight. At night, low-energy LED lights are used. If a room is empty for more than ten minutes, the lights switch off automatically. Solar panels on the roof provide extra energy during sunny days. Although the house is connected to the national grid, it depends partly on renewable energy to reduce its carbon footprint.

Water management is another important feature. Rainwater from the roof is collected and stored in tanks. This water is used for gardening and cleaning outdoor areas. RumAI monitors daily water usage. If consumption increases suddenly, the system sends a reminder to the family's phones. This helps them develop responsible habits without feeling stressed.

The smart system also manages appliances in order to make life more convenient and accessible for the family. For example, the washing machine operates automatically when it detects a full load of laundry, especially during off-peak hours when electricity consumption costs less. It is also able to identify when Farid's father's electric car requires recharging. During sunny days, RumAI charges the car using mainly solar energy, and will switch to on-the-grid charging on days with weak sunlight. When travelling, the system also suggests the best time to leave to avoid traffic and tracks the position of the car when GPS location tracking is turned on.

One evening, the true value of the smart home became clear. Farid's grandmother, who is seventy-eight years old, was resting in her room. She wore a small health monitor connected to RumAI. The device tracked her heart rate and movement. Suddenly, the system detected an

irregular heartbeat and noticed that she had not moved for several minutes.

Within seconds, RumAI sent an urgent alert to Farid's parents' phones. The lights in her room switched on automatically, and a calm voice message asked if she needed help. When there was no response, the system contacted the nearest clinic and shared her health data. Farid's father rushed to her room and found her weak but conscious. Thanks to the early warning, medical help arrived quickly. The doctor later explained that the quick response prevented a serious heart attack.

After that night, the family felt even more grateful for their smart home. The system did not only save energy and reduce waste. It also protected the people inside it.

As a result of innovation and careful development, rural smart homes in Malaysia prove that technology can support both sustainability and safety. Families can enjoy comfort while maintaining a low carbon lifestyle. For Farid and his family, their home is more than a building. It is a safe, modern, and convenient place to call home.

19 In paragraph 1, what causes the ceiling fans to turn on automatically?

A Farid's movements triggered RumAI's motion sensor.

B Farid's electric motorcycle passed through the gate.

C Farid controlled the switches using RumAI.

D Farid's front door unlocked automatically.

20 In paragraph 2, why are rural smart homes environmentally friendly?

A They are built to use less resources and have a smaller carbon footprint.

B They are created with less energy compared to homes in big cities

C They are connected to an electric source and clean water supply.

D They are designed differently compared to other homes.

Part 4

Questions 27 to 32 *are based on an article about why retail therapy feels so powerful. Six sentences have been removed from the article. Choose from the sentences* **A to H** *the one which fits each gap* **(27 to 32)**. *There are two extra sentences which you do not need to use. Mark your answers on the separate answer sheet.*

WHY RETAIL THERAPY FEELS SO POWERFUL

Shopping has long been associated with pleasure, comfort and even stress relief. In fact, a global study conducted by Deloitte found that nearly 80% of adults across 23 countries admitted to making a purchase simply to lift their mood within the past month. **27.** [ ] This finding highlights just how widespread emotional spending has become in today's consumer culture.

The term "retail therapy" describes the act of shopping to improve one's emotional state rather than to meet practical needs. **28.** [ ] Consumer researchers say that spending behaviour is not just about acquiring items. Instead, it is often influenced by hidden emotional triggers that shape how individuals respond to stress, boredom or uncertainty. **29.** [ ]

Interestingly, the study showed that retail therapy occurs across all income groups. The most frequently chosen splurge category was food and beverages, ahead of fashion and beauty products. **30.** [ ] Enjoying a special meal or drink can create moments of comfort and connection, particularly after periods of social isolation. Such experiences may help ease feelings of disconnection and loneliness.

The research also challenged assumptions about gender differences in spending behaviour. **31.** [ ] In fact, when they chose to splurge, men tended to spend significantly more. Some experts explain that this may be because men have fewer socially accepted ways to openly express certain emotions, so shopping becomes a way to meet emotional needs without talking about them.

When asked why consumers make mood-boosting purchases, many mentioned stress relief, self-reward and temporary escape from daily pressures. Although experts caution against excessive debt, taking a small break and treating yourself in moderation can serve psychological functions. **32.** [ ] Ultimately, retail therapy may not replace professional support but it demonstrates how closely consumption is linked to emotional well-being in modern life.

A As a result, purchasing becomes a coping strategy rather than a simple transaction.

B Some analysts believe this reflects differences in how emotions are socially expressed.

C Many acknowledged that the item was not essential and, in some cases, beyond their budget.

D This suggests that shopping choices can reflect deeper psychological needs.

E Therefore, financial discipline is unnecessary when shopping improves mood.

F Unlike material possessions, food-related purchases are often tied to shared experiences.

G For many individuals, the act of buying provides a sense of regained control.

H While retail therapy is often associated with women, men reported similar patterns of indulgence.

Part 5

Questions 33 to 40

Here are six people sharing their views on the use of technology and Artificial Intelligence in schools. Read the texts below and answer the questions that follow.

The Use of Technology and Artificial Intelligence (AI) in Schools

A - Maria, 16

I think technology and AI help students learn faster. Sometimes teachers explain things in a difficult way, but AI tools can provide simpler and even step-by-step explanations. This helps students revise lessons and learn at their own pace.

B - Janne, 15

Technology helps schools, but I worry about relying too much on AI. Students might stop thinking and solving problems because they let AI give them answers. This can make them lazy and lose important skills.

C - Aisyah, 17

In my opinion, AI should be used as a learning assistant rather than a replacement for teachers. AI can help students search for information quickly and understand difficult topics, but teachers still play an important role in guiding students. Teachers can ensure that students use AI responsibly and do not misuse it for cheating or copying answers.

D - Leo, 19

I enjoy using technology in class because it makes lessons more engaging and interactive. Instead of just reading from textbooks, we can watch educational videos, use learning apps, and even explore simulations that help us understand real-life situations better. AI tools can also personalise learning by suggesting activities based on our strengths and weaknesses.

E - Emma, 16

While technology and AI can improve learning, not all students have equal access to devices or stable internet connections at home. This creates a gap between those who can benefit fully from digital tools and those who cannot. If schools rely too heavily on AI, students from less privileged backgrounds may feel left behind or disadvantaged.

F - Daniel, 18

I believe AI will play a major role in our future, especially in the workplace. That is why schools should not only allow the use of AI but also teach students how to use it responsibly and effectively. Students need to understand both the advantages and the risks, such as over-reliance or misuse.

Questions 33 to 36

Using the information given, which paragraph **(A-F)** *describes the following statements about the use of technology and AI in schools?*

Mark your answers on **the separate answer sheet**.

	Statement	Paragraph
33	Overuse of AI may reduce students' problem-solving skills.	
34	Digital tools make learning more engaging and personalised.	
35	Unequal access to technology widens the learning gap among students.	
36	Schools should teach responsible AI use as it is crucial in future careers.	

Questions 37 to 40

Complete the notes below using information from the text. Choose **no more than one word** *from the passage for each answer.*

Write your answer on the answer sheet.

AI in Schools

People have different opinions about using technology and AI in schools. Some think AI can explain lessons more clearly and help students learn at their own (37) _____ , making studying easier and faster. Others worry that (38) _____ heavily on AI may stop students from thinking for themselves and solving problems independently. Teachers are in charge of (39) _____ students in applying AI in their learning to make sure AI is not being misused. Learning to use AI responsibly now can also prepare students for (40) _____ employment. However, there are concerns about unequal access to devices and the internet, creating a gap in the nation. Therefore, while AI offers many advantages in education, it must be used wisely and fairly to ensure all students benefit equally.

MODUL TAMAT

Part 3

Question	Answer	Level
19.	A	Remembering
20.	A	Understanding
21.	C	Applying
22.	A	Understanding
23.	C	Analysing
24.	D	Analysing
25.	C	Evaluating
26.	A	Evaluating

Part 4

Question	Answer	Level
27.	C	Evaluate
28.	A	Evaluate
29.	D	Analyze
30.	F	Analyze
31.	H	Evaluate
32.	G	Evaluate

Suka sampel ini?

Kertas Trial SPM

Bahasa Inggeris (20+ set)

- Kertas trial SPM dari banyak negeri untuk subjek yang dipilih
- Skema jawapan / cadangan jawapan
- Set Penuh: semua 17 subjek dan jadual ulangkaji A+

RM12.90

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