



Technology & Innovation

A. WARM-UP QUESTIONS

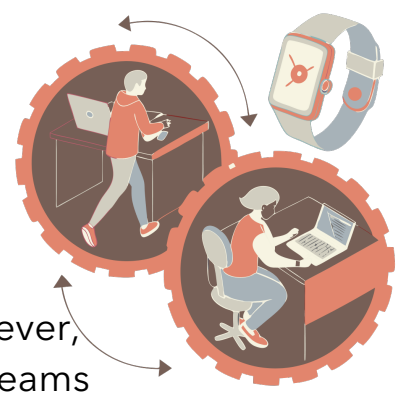
1. What recent technology has changed your daily life the most?
2. Do you prefer to be an early adopter or wait until tech becomes stable?
3. Which industry will be most transformed by AI in the next 5 years?
4. What tech skill would you like to learn this year?
5. What risks do you think new technologies bring?

B. VOCABULARY PREVIEW

Match the words with their meanings. Check this again after seeing the words in context on page 2.

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|-----------------------------|--|
| ___ 1. prototype | a) a significant change that alters an industry or market |
| ___ 2. machine learning | c) the use of technology to perform tasks with little human intervention |
| ___ 3. automation | b) a method where systems learn from data to improve performance |
| ___ 4. cloud infrastructure | d) software whose source code is freely available to use and modify |
| ___ 5. edge computing | e) the ability of a system to handle increased workload |
| ___ 6. cybersecurity | f) the protection of computer systems and networks from attacks |
| ___ 7. data privacy | g) the right to control how personal information is collected and used |
| ___ 8. open-source | h) servers and services delivered over the internet for computing needs |
| ___ 9. scalability | i) processing data near the source rather than in a central cloud |
| ___ 10. interoperability | j) the rate at which users start using a new product or feature |
| ___ 11. user adoption | k) the ability of different systems to work together |
| ___ 12. disruption | l) an early model used to test a concept or process |

READING



1. Companies have been building prototypes faster than ever, thanks to affordable tools and open-source libraries. Small teams can now launch products in weeks, and startups have already disrupted traditional players in finance, health, and education.

2. At the same time, automation and machine learning are changing workplaces. Many routine tasks were done by people in the past, but today, systems can learn from data and assist with decisions. If businesses invest in training, employees will adapt more easily to these tools and work on higher-value tasks.

3. As services move to cloud infrastructure and edge computing, cybersecurity and data privacy remain critical. If organizations design for security and interoperability from the start, their products will scale smoothly. User adoption then depends on clear benefits and intuitive design that solve real problems.

COMPREHENSION

1. Why are prototypes being built faster today?
2. How are automation and machine learning changing workplaces?
3. What should businesses do to help employees adapt to new tools?
4. Why are cybersecurity and data privacy important in modern systems?
5. What factors influence user adoption, according to the article?

VOCABULARY REVIEW

A. Complete the Sentences

1. The team created a _____ to test the idea with real users.
2. With _____, the model improves as it sees more examples.
3. The company invested in _____ to reduce repetitive tasks.
4. We migrated our app to _____ to handle variable demand.
5. Processing video streams with _____ reduces latency.
6. A strong _____ strategy protects user accounts and data.

7. New laws aim to protect _____ in online platforms.
8. We chose an _____ toolkit to avoid vendor lock-in.
9. Our architecture supports _____ so we can handle growth.
10. Standards ensure _____ between different systems.
11. Early _____ depends on clear onboarding and value.
12. Streaming services have caused major industry _____.

GRAMMAR REVIEW - FUTURE: WILL vs GOING TO

Reference

Use ****will**** for spontaneous decisions, promises, offers, and predictions without strong evidence. Use ****going to**** for plans/intentions decided before the moment of speaking and for predictions based on present evidence.

1. I think AI _____ (transform) customer service in the next few years.
2. We _____ (launch) the beta next month; the plan is already in place.
3. Don't worry, I _____ (help) you set up the new tool right now.
4. Look at those error logs – the server _____ (crash) if we don't patch it.
5. She _____ (present) the prototype tomorrow; it's on the schedule.
6. That team is stuck; I _____ (jump) on a call with them.
7. We've booked the lab, so we _____ (run) experiments on Friday.
8. It seems the battery is overheating – it _____ (shut down) soon.

DISCUSSION

1. Which jobs will change the most due to automation, and how should education respond?
2. What ethical rules should guide the use of AI in everyday products?
3. How can designers increase user adoption without creating addiction?
4. What technology trend excites you the most, and why?

CRITICAL THINKING

If you could invest in one innovation to improve society, what would it be and how would you measure its impact?