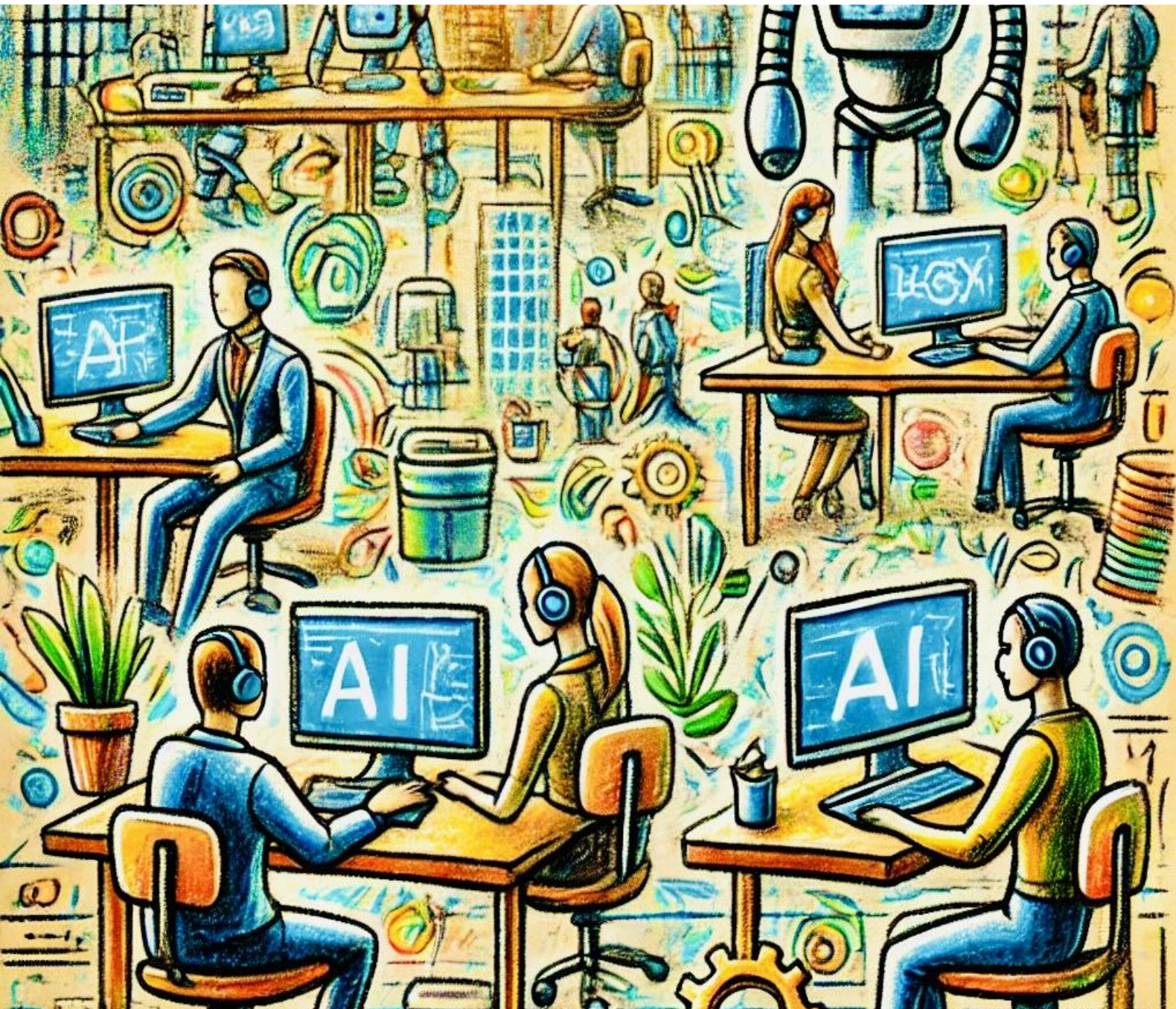


# AI AND THE FUTURE OF WORK



**Print & Go Worksheets**

**COMPREHENSIVE ANSWER KEYS**

**Reading & Comprehension Activities**



Name:

Date:

Create a title for each paragraph

# AI and the Future of Work

## (1 of 3)

Summarise each paragraph with two or three bullet points

The rapid rise of artificial intelligence (AI) and automation is reshaping industries across the globe, with significant implications for the future of work. From revolutionising traditional manufacturing processes to transforming the way businesses operate, AI is predicted to both create and displace jobs, prompting questions about the skills required in the workforce and the types of roles that will emerge in the coming decades. Understanding the impact of AI on work, adapting to these changes, and preparing for future opportunities are critical for businesses, workers, and policymakers alike.

### AI, Automation, and the Impact on Jobs

The integration of AI and automation technologies has already begun to influence the job market in profound ways. Automation, particularly in manufacturing, logistics, and customer service, has streamlined repetitive and routine tasks, allowing businesses to improve efficiency and reduce costs. AI systems, from intelligent algorithms in financial services to robotics in factories, are handling tasks that were once performed exclusively by humans. This shift is leading to a complex dynamic: while AI is creating new opportunities, it is also displacing certain job functions.

#### Job Creation and Job Displacement:

Automation technologies are expected to displace jobs that involve routine, manual tasks, such as assembly line work, data entry, and telemarketing. AI's ability to process vast amounts of data and perform cognitive tasks is also leading to the automation of some white-collar jobs, such as those in accounting and administrative roles. However, AI is not simply a job-killer. It is also a catalyst for job creation. New roles in AI development, data science, machine learning engineering, and AI ethics are emerging, while traditional industries like healthcare, education, and law enforcement are integrating AI to create more specialised roles.

AI-driven sectors such as autonomous vehicles, smart city infrastructure, and renewable energy are also likely to expand, contributing to job growth. The challenge lies in ensuring that the workers displaced by AI are retrained for these emerging roles, especially in industries that have traditionally relied on lower-skilled labour.

### Shift in Workforce Skills

As AI systems become more sophisticated, the skills required by the workforce are evolving. While AI can automate many tasks, there are certain human abilities that remain irreplaceable, at least in the near term. These include creativity, emotional intelligence, complex problem-solving, and critical thinking. The future workforce will need to combine technical competencies with human-centric skills to thrive in an AI-dominated environment.

#### The Importance of Upskilling and Reskilling:

One of the most significant changes brought about by AI will be the need for workers to acquire new skills. As automation takes over repetitive tasks, there will be a growing demand for workers skilled in AI development, data analysis, and digital literacy. Organisations will need to invest in upskilling and reskilling their employees, equipping them with the technical know-how required to interact with AI technologies.

Moreover, the ability to manage AI systems, analyse the data they generate, and interpret insights will be critical.

Create a title for each paragraph	(2 of 3)	Summarise each paragraph with two or three bullet points
	<p>For instance, roles in AI ethics and governance, cybersecurity, and algorithmic accountability will become increasingly relevant as businesses seek to ensure responsible AI use. In addition to technical expertise, skills such as adaptability, collaboration, and empathy will be key, as human workers will often work alongside AI systems in a complementary manner.</p> <p><b>Lifelong Learning and Continuous Education:</b> As AI evolves rapidly, the notion of lifelong learning will take on greater importance. Workers will need to continually update their skills to keep pace with technological advancements. This will likely lead to a shift in educational models, with a greater emphasis on continuous learning rather than traditional, one-time education. Employers may also play a more active role in facilitating lifelong learning, offering training programs and certifications to help employees stay competitive in the job market.</p> <p><b>Predictions for the Future Job Market</b></p> <p>Predicting the future job market is a complex task, but there are some trends and projections that can help us understand how AI will shape the workforce. Analysts predict that while AI will automate certain tasks, it will also create entirely new industries and job categories. Some of the emerging roles are already beginning to take shape, while others are still on the horizon.</p> <p><b>Emerging Roles in the AI Era:</b> As AI systems become more integrated into business operations, new job roles will emerge. Some of the key areas for job growth include:</p> <ul style="list-style-type: none"><li>● <b>AI and Machine Learning Specialists:</b> These roles involve designing, training, and refining AI models to perform specific tasks. The demand for AI specialists is already growing as businesses seek to harness AI for automation, predictive analytics, and optimisation.</li><li>● <b>Data Analysts and Data Scientists:</b> As businesses accumulate vast amounts of data, the ability to analyse and interpret this data will be critical. Data analysts and scientists will play a pivotal role in extracting actionable insights from AI systems.</li><li>● <b>AI Ethics Officers:</b> As AI becomes more powerful, ethical concerns around bias, fairness, and privacy will require specialised roles to ensure responsible AI development and implementation. AI ethics officers will oversee the ethical implications of AI technologies in the workplace and society.</li><li>● <b>Human-AI Interaction Designers:</b> These roles focus on creating seamless interfaces between humans and AI systems, ensuring that AI tools are user-friendly and effective. As AI becomes embedded in consumer products and services, human-AI interaction will become a critical area of innovation.</li><li>● <b>Cybersecurity Experts:</b> With AI playing a larger role in managing sensitive data and critical infrastructure, cybersecurity professionals will be needed to protect AI systems from malicious attacks and ensure data integrity.</li></ul> <p><b>Changes in Traditional Industries:</b> While new industries and roles are emerging, traditional sectors such as healthcare, education, and agriculture will also experience significant transformation due to AI. For example, in healthcare, AI is being used to analyse medical data, predict patient outcomes, and even assist in surgeries.</p>	

Create a title for each paragraph	(3 of 3)	Summarise each paragraph with two or three bullet points
	<p>This will lead to the creation of new roles for medical professionals who can work alongside AI technologies, such as AI-enhanced diagnostic specialists.</p> <p>In education, AI-driven personalised learning systems are changing the way students are taught, creating new opportunities for educators who can integrate AI into their teaching methods. Similarly, AI in agriculture is driving innovations in crop monitoring, pest control, and resource management, requiring farmers to develop new technical skills to manage AI-enabled tools.</p> <p><b>Case Study: AI in Healthcare – The Role of AI in Enhancing Medical Diagnostics</b></p> <p>One of the most striking examples of AI's transformative impact on the future of work can be seen in the healthcare industry, specifically in the field of medical diagnostics. The introduction of AI-powered systems in hospitals and clinics is enhancing the ability of doctors and specialists to diagnose diseases with greater accuracy and speed. These AI systems can analyze vast amounts of medical data, including images from MRIs, X-rays, and CT scans, to detect patterns and abnormalities that may be missed by human eyes.</p> <p><b>Impact on Job Roles:</b> In this context, AI is not replacing radiologists or diagnostic professionals but is instead augmenting their capabilities. AI allows healthcare professionals to make faster and more accurate diagnoses, ultimately improving patient outcomes. However, it does change the nature of the job. Radiologists now need to understand how to work with AI systems, interpret the results generated by algorithms, and ensure that the technology is being used ethically and responsibly.</p> <p><b>Creation of New Roles:</b> With AI's growing role in healthcare diagnostics, new positions such as <b>AI Diagnostic Specialists</b> have emerged. These professionals bridge the gap between traditional medical knowledge and AI technology. Their job involves training AI systems, verifying the accuracy of AI diagnoses, and ensuring that the technology adheres to medical regulations and standards.</p> <p>This case study illustrates how AI is reshaping the healthcare sector by not only improving efficiency but also creating new, more advanced job roles that require a blend of medical expertise and technological proficiency.</p> <p><b>Conclusion: Preparing for an AI-Driven Future</b></p> <p>The case of AI in healthcare highlights a broader trend across industries: AI is reshaping the workforce by enhancing human roles, creating new opportunities, and requiring a shift in skills. As AI continues to evolve, sectors beyond healthcare—such as finance, manufacturing, and education—will experience similar transformations, reinforcing the need for workers to adapt to this rapidly changing landscape.</p> <p>The future of work in an AI-dominated world will be shaped by both the opportunities and challenges that come with this technology. While some jobs will undoubtedly be lost to automation, new roles and industries will emerge, creating opportunities for those who are prepared to adapt. The key to thriving in this new landscape lies in reskilling and upskilling the workforce, embracing lifelong learning, and fostering a balance between technical and human-centric skills. Governments, businesses, and educational institutions will need to work together to ensure that workers are equipped with the skills necessary for an AI-driven economy. With the right strategies, the future of work with AI can lead to increased productivity, innovation, and job creation, benefiting society as a whole.</p>	

# Multiple-Choice Comprehension

1. How is AI primarily influencing the job market?
  - a) By completely eliminating all jobs
  - b) By automating tasks while creating new job opportunities
  - c) By reducing the number of industries
  - d) By focusing only on white-collar jobs
  
2. Which skill is expected to be increasingly important in an AI-dominated workforce?
  - a) Physical strength
  - b) Basic data entry
  - c) Routine manual tasks
  - d) Emotional intelligence
  
3. What role do AI ethics officers play in businesses?
  - a) They develop AI technologies
  - b) They train employees in coding
  - c) They manage financial transactions
  - d) They oversee the ethical implications of AI use
  
4. Which of the following roles is expected to emerge due to AI integration in healthcare?
  - a) AI Diagnostic Specialists
  - b) Traditional radiologists only
  - c) Manual data entry clerks
  - d) Customer service representatives
  
5. In which sector is AI significantly enhancing diagnostic capabilities?
  - a) Agriculture
  - b) Finance
  - c) Healthcare
  - d) Retail

# Multiple-Choice Comprehension

6. What is a primary concern regarding job displacement due to AI?
- a) Increased job security for all workers
  - b) Reduced demand for highly skilled professionals
  - c) Workers needing to adapt to new technologies
  - d) A lack of innovation in the workplace
7. Which of the following is NOT mentioned as a key area for job growth related to AI?
- a) Data science
  - b) AI machine learning
  - c) Cybersecurity
  - d) Traditional farming methods
8. How will the workforce need to change in response to AI advancements?
- a) By returning to traditional job roles
  - b) By focusing solely on physical tasks
  - c) By reducing education requirements
  - d) By enhancing digital literacy and technical skills
9. What will become more crucial for workers in the age of AI?
- a) Lifelong learning and continuous education
  - b) Reliance on automated systems for all tasks
  - c) Emphasis on physical labor
  - d) Strict adherence to outdated skills
10. The introduction of AI in industries is expected to:
- a) Eliminate the need for human workers
  - b) Create new industries while transforming existing ones
  - c) Limit job opportunities in tech sectors
  - d) Focus solely on low-skilled labor jobs

Name:

Date:

# Plenary - True or False?

1. True or False: AI is expected to only eliminate jobs without creating any new opportunities.
2. True or False: Emotional intelligence will become a less important skill in the AI-driven workforce.
3. True or False: AI technologies can enhance the accuracy of medical diagnostics.
4. True or False: AI ethics officers are responsible for training employees in coding.
5. True or False: The need for workers to adapt to new technologies is a concern regarding job displacement due to AI.
6. True or False: New job roles in sectors like data science and AI development are emerging due to the integration of AI.
7. True or False: Lifelong learning will become less crucial as AI systems take over most tasks.
8. True or False: AI in agriculture is expected to create opportunities for workers with technical skills.
9. True or False: AI systems are capable of performing routine manual tasks more efficiently than human workers.
10. True or False: Workers will need to focus solely on physical labor in an AI-dominated workforce.

# Main Idea

**The main idea of the lesson is that AI and automation are transforming the future of work by creating new job opportunities, shifting workforce skills, and necessitating continuous learning and adaptation among workers.**

Evidence #1



Evidence #2

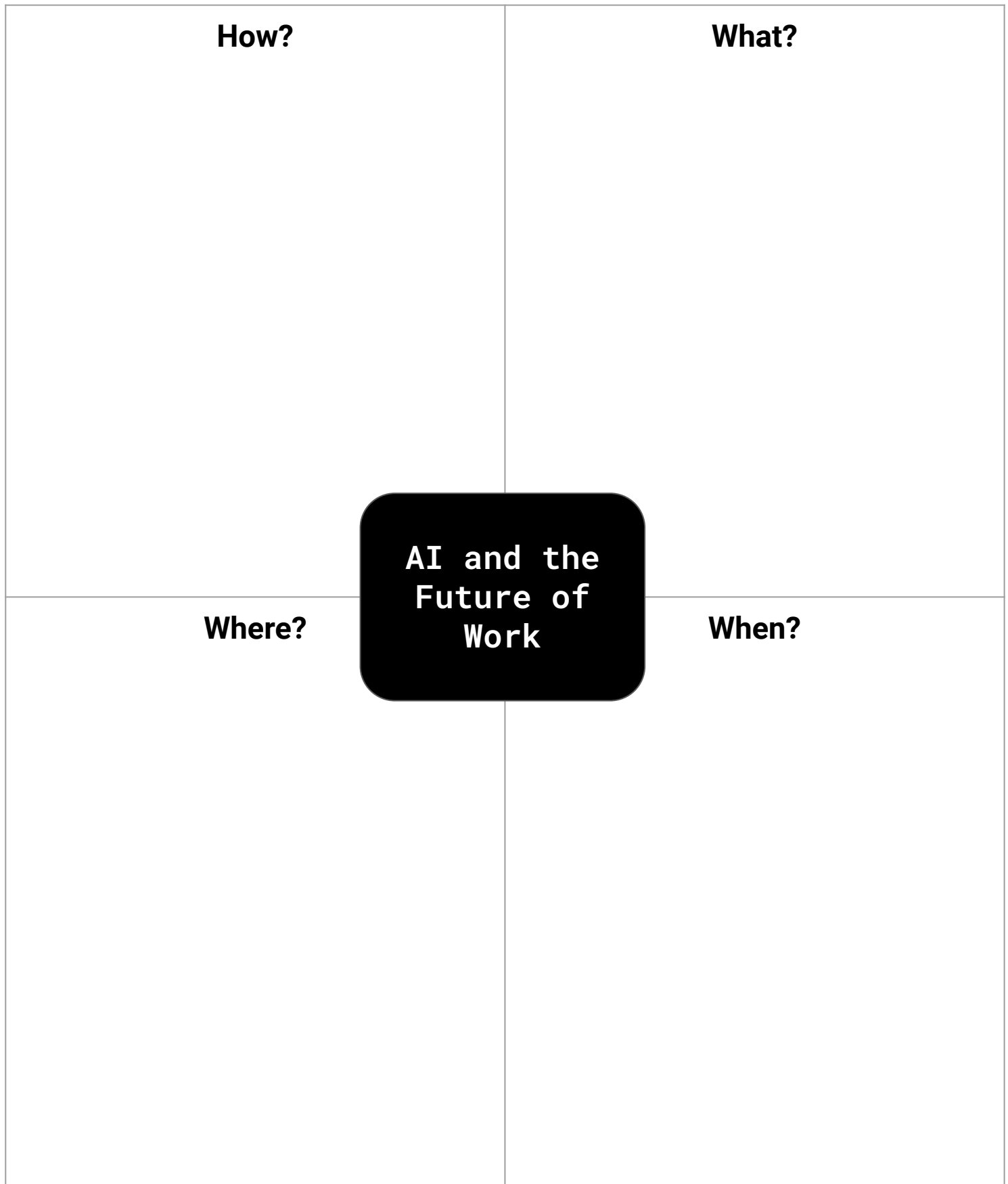


Evidence #3



Date:

## How, What, Where, When?



# Writing Framework

**What do you think language**

- ☐ I think that...
- ☐ I believe...
- ☐ In my opinion...
- ☐ In my view...
- ☐ It is my belief that ...
- ☐ It is clear to see...

**Elaborating your ideas**

- ☐ This suggests
- ☐ This shows
- ☐ This infers
- ☐ This signifies
- ☐ This implies
- ☐ This portrays
- ☐ This conveys
- ☐ This means
- ☐ Therefore
- ☐ However
- ☐ Furthermore

**Contrasting**

- ☐ Whereas
- ☐ Instead of
- ☐ Alternatively
- ☐ Otherwise
- ☐ In another way
- ☐ Then again

**Give examples**

- ☐ Such as
- ☐ In the case of
- ☐ For example
- ☐ As revealed by
- ☐ For instance

**Explain an idea**

- ☐ Although
- ☐ Except
- ☐ Unless
- ☐ However
- ☐ Therefore

**Adding to**

- ☐ And
- ☐ Also
- ☐ As well as
- ☐ Moreover
- ☐ Too
- ☐ Furthermore

**Cause and effect**

- ☐ Because
- ☐ So
- ☐ Therefore
- ☐ Consequently
- ☐ Thus

**Sequencing**

- ☐ Firstly
- ☐ Secondly
- ☐ Next
- ☐ Finally afterwards
- ☐ Since

**To emphasise**

- ☐ Above all
- ☐ Ultimately
- ☐ Especially
- ☐ Significantly

**To compare**

- ☐ Likewise
- ☐ Equally
- ☐ In the same way
- ☐ Similarly

Name:

Date:

# Standard-Level Comprehension

1. What is AI, and how is it influencing the future of work?
2. Name one job role that AI is expected to create in the healthcare sector.
3. How does AI help improve medical diagnostics?
4. What skill is becoming more important for workers as AI technologies advance?
5. Why is lifelong learning necessary in an AI-driven workforce?
6. What are AI ethics officers responsible for?
7. Can you give an example of an industry where AI is creating new job opportunities?
8. How does AI affect routine tasks in the workplace?
9. What is the relationship between automation and job displacement?
10. Why is emotional intelligence important in the future job market?

Name:

Date:

## Intermediate-Level Comprehension

1. How is AI expected to change the nature of work in various industries?
2. Discuss the potential benefits and challenges associated with AI-driven job creation.
3. What skills do workers need to develop in order to collaborate effectively with AI technologies?
4. How might AI impact roles in traditional industries such as manufacturing and agriculture?
5. Explain the significance of upskilling and reskilling in an AI-dominated job market.
6. In what ways can businesses support their employees in adapting to AI technologies?
7. Describe the role of data scientists in the context of AI and the future of work.
8. What ethical concerns arise from the integration of AI into the workplace?
9. How does the concept of lifelong learning apply to employees in industries affected by AI?
10. Analyze the impact of AI on job security and employment trends in the next decade.

Name:

Date:

## Advanced-Level Comprehension

1. Evaluate the long-term implications of AI on the workforce in terms of economic inequality and social mobility.
2. How can businesses balance the benefits of AI automation with the ethical considerations of job displacement?
3. Discuss the role of government policies in shaping the future job market as AI technologies continue to advance.
4. In what ways can interdisciplinary approaches enhance the development and implementation of AI in various sectors?
5. Analyze the potential for AI to create new industries and markets, and what that means for traditional job roles.
6. How might the integration of AI in decision-making processes impact organizational structures and hierarchies?
7. Assess the potential psychological effects on workers who face job displacement due to AI and automation.
8. Examine the role of corporate social responsibility in addressing the challenges posed by AI in the workplace.
9. What strategies can organizations adopt to foster a culture of innovation while implementing AI technologies?
10. Explore the potential consequences of a workforce that is predominantly skilled in AI technologies for the future of human employment.



Name:

Date:

## Stretch & Challenge

1. How can organizations effectively measure the impact of AI integration on employee performance and productivity while ensuring ethical practices?
2. In what ways can AI contribute to addressing global challenges such as climate change, and what implications does this have for the future workforce?
3. Analyze how cultural differences may influence the adoption and implementation of AI technologies in various regions, and what this means for global business strategies.
4. What role do interdisciplinary collaborations play in ensuring that AI technologies are developed and deployed with a focus on social good and equity?
5. Discuss the potential long-term societal changes that may arise from a workforce increasingly reliant on AI technologies and the responsibility of businesses in managing these changes.

## Further Suggested Tasks

### 1. Group Discussion on AI Ethics

Organize students into small groups to discuss the ethical implications of AI in the workplace. Each group should identify specific ethical concerns, such as bias in algorithms, privacy issues, and job displacement. After the discussion, each group can present their findings to the class, encouraging a broader dialogue about the responsibilities of businesses in implementing AI technologies ethically.

### 2. Research Project on AI Applications

Assign students to conduct a research project on the various applications of AI across different industries, such as healthcare, finance, and manufacturing. Students should focus on how AI is transforming these sectors, the benefits it brings, and the potential challenges. They can present their findings in a written report or a multimedia presentation, highlighting case studies that illustrate AI's impact.

### 3. Debate on the Future of Work

Host a debate where students take sides on the question: "Is AI more likely to create jobs or eliminate them?" Students should research their positions, using data and examples from the reading text and other sources to support their arguments. This activity will help students develop critical thinking and public speaking skills while engaging with the material.

### 4. Create an AI Implementation Plan

Have students work in groups to develop a hypothetical implementation plan for introducing AI in a specific industry of their choice. The plan should outline the objectives, potential challenges, and strategies for training employees to adapt to AI technologies. Students should consider ethical implications and how to address employee concerns, presenting their plans to the class for feedback.

### 5. Interview a Local Business Leader

Encourage students to reach out to a local business leader or entrepreneur to discuss their perspective on AI's impact on their industry. Students can prepare a list of questions based on the reading text and conduct a formal interview. Afterward, they should write a reflective piece summarizing the insights gained and how they relate to the concepts discussed in class.

### 6. Develop a Personal Action Plan for Lifelong Learning

Have students create a personal action plan for their own lifelong learning in relation to AI and technology. They should identify skills they wish to develop, resources available (such as online courses or workshops), and steps they can take to stay informed about AI advancements. Students can share their plans in small groups to encourage accountability and support.

### 7. Simulation of Job Market Changes

Conduct a simulation exercise where students role-play as different stakeholders in the job market (e.g., workers, employers, government officials). Present them with scenarios related to AI's impact on employment, such as a company implementing AI and laying off workers. Students must negotiate solutions that address the needs of each stakeholder, fostering a deeper understanding of the complexities involved in workforce changes.

### 8. Create a Multimedia Campaign

Challenge students to design a multimedia campaign aimed at raising awareness about the benefits and challenges of AI in the workplace. This could include creating social media posts, videos, infographics, or podcasts. Students should focus on how to communicate the importance of ethical AI practices and the need for upskilling in the workforce. Presentations of their campaigns can be shared with the class or even published online for a broader audience.

# Lesson Plan For Teachers

## Lesson Plan: Understanding AI and the Future of Work

**Objective:** Students will understand the impact of AI and automation on the workforce, identify necessary skills for adapting to these changes, and discuss the ethical implications of AI in the workplace.

**Materials Needed:**

- Reading text: AI and the Future of Work
- Whiteboard and markers
- Projector for presentations (if applicable)
- Handouts with key terms and discussion questions
- Sticky notes for brainstorming activity

**Introduction (10 minutes):**

- Begin the lesson by asking students what they know about AI and its role in the workplace. Write their responses on the whiteboard to generate interest.
- Introduce the reading text "AI and the Future of Work," explaining that the lesson will explore how AI is transforming job markets, the skills needed for future employment, and ethical considerations.

**Reading Activity (15 minutes):**

- Distribute the reading text to students and give them 10 minutes to read silently.
- After reading, ask students to highlight or take notes on key points related to job creation, displacement, and necessary skills.

**Group Discussion (15 minutes):**

- Divide the class into small groups of 4-5 students.
- Assign each group a specific discussion question based on the reading text, such as:
  1. How is AI expected to change the job market in various industries?
  2. What skills will be most important for workers in an AI-driven economy?
  3. What ethical concerns arise from the use of AI in the workplace?
- Allow groups to discuss their questions for 10 minutes and prepare to share their insights.
- Reconvene as a class and ask each group to summarize their discussion points.

**Interactive Activity (15 minutes):**

- Conduct a brainstorming session on the whiteboard.
- Ask students to consider the future job market and write down skills or job roles they believe will be important in 5-10 years. Encourage them to think creatively and consider emerging industries.
- After brainstorming, have students share their ideas and discuss as a class the feasibility and relevance of each suggestion.

**Conclusion and Reflection (5 minutes):**

- Wrap up the lesson by summarizing key points discussed about AI's impact on work, the importance of adapting skills, and ethical considerations.
- Distribute sticky notes and ask students to write one takeaway from the lesson or a question they still have about AI in the workplace.
- Collect the sticky notes for future reference and to address any lingering questions in the next class.

**Assessment:**

- Informal assessment through participation in group discussions and the brainstorming activity.
- Review of sticky notes to gauge student understanding and areas for further exploration in future lessons.

# Lesson Plan For Teachers

Extension:

- For homework, assign students to research an AI application in a specific industry and prepare a short presentation for the next class. This will deepen their understanding of AI's practical implications in various sectors.

## Differentiation Strategies

Differentiation strategies are crucial in the classroom to address the diverse learning needs, preferences, and abilities of students. By tailoring instruction and activities, teachers can ensure that all students are engaged and can achieve their full potential.

### 1. Flexible Grouping

Group students based on their skill levels or interests for discussions and activities. This allows advanced students to explore topics more deeply, while those who may need more support can collaborate with peers in a more comfortable setting.

### 2. Varied Reading Materials

Provide different versions of the reading text to accommodate various reading levels. For example, offer a simplified version for struggling readers and a more complex version for advanced students, ensuring that all students can access the material at their level.

### 3. Choice of Assessment Formats

Allow students to demonstrate their understanding of the content through various formats, such as written reports, presentations, or creative projects. This approach caters to different learning styles and strengths, giving students the opportunity to showcase their knowledge in a way that suits them best.

### 4. Scaffolding Techniques

Incorporate scaffolding by breaking tasks into smaller, manageable parts and providing support along the way. For instance, use guided questions during group discussions to help students who may struggle to articulate their thoughts, gradually encouraging them to express their ideas more independently.

### 5. Personalized Learning Goals

Set individualized learning goals for students based on their current abilities and interests. Regularly assess progress and adjust goals as needed, ensuring that each student is challenged appropriately while also receiving the necessary support to succeed.

Name:

Date:

# Lesson Summary

## FIVE BULLET POINTS

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## ONE SENTENCE

“

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”

## ONE WORD

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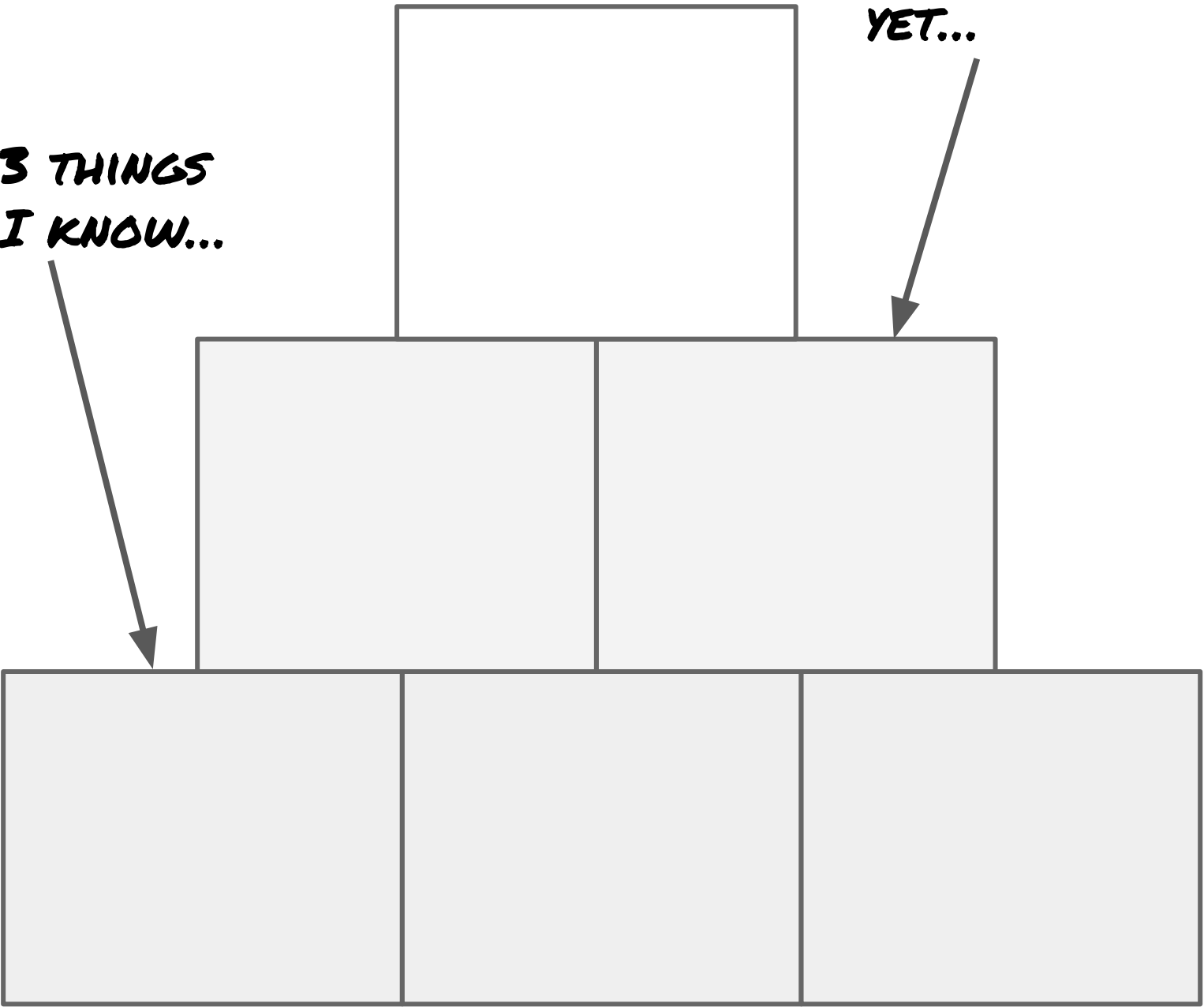


**Progress  
Pyramid**

**1 QUESTION I  
WOULD LIKE  
ANSWERED...**

**2 THINGS I'M  
NOT SURE OF  
YET...**

**3 THINGS  
I KNOW...**



Name:

Date:

# Planning For Progress

<b>Further Research</b>	<b>Next Steps In Learning</b>
	<b>Guided Practice</b>
	<b>Misconceptions / Errors</b>
<b>Need Further Support</b>	<b>Relearn</b>

Name:

Date:

# Head, Heart, Hashtag

## HEAD



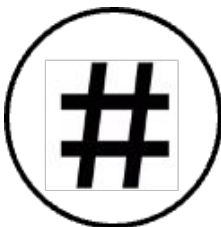
Summarise  
the key  
points you  
learned in  
this article.

## HEART



How has  
this article  
made you  
feel? Why?

## HASHTAG



What will  
you share  
with others?  
Why?

Name:

Date:

# Exit Ticket



## ***YOUR TURN***

Write down four quiz questions that can be asked at the start of next lesson.

1.

2.

3.

4.

Name:

Date:

**Student Answers**  
**Standard-Level**

1.

2.

3.

4.

5.



6.

7.

8.

9.

10.

**Additional Info:**

Name:

Date:

**Student Answers**  
**Intermediate-Level**

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

**Additional Info:**

Name:

Date:

**Student Answers**  
**Advanced-Level**

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

**Additional Info:**