Introduction to AI (10 minutes)
In pairs, discuss and write your thoughts on the following questions:
1. What is Artificial Intelligence (AI)? 2. How is AI used in everyday life? 3. What are the potential benefits and drawbacks of AI?
Case Study: AI in Healthcare (20 minutes)
Read the case study on AI in Healthcare. What are the benefits and drawbacks of using AI in medical diagnosis?
Al has the potential to revolutionize the healthcare industry by improving diagnosis accuracy, streamlining clinical workflows, and enhancing patient care. However, there are also concerns about data privacy, algorithmic bias, and the potential for Al to replace human healthcare professionals.

Discuss the po	otential impact of autonomous vehicles on employment and road safety.
caused by hur	vehicles have the potential to improve road safety by reducing the number of accidents man error. However, there are also concerns about the potential impact on employment, or drivers and other transportation workers.
Case Study:	AI in Education (20 minutes)
	Al in Education (20 minutes) e used in education to improve learning outcomes?
How can AI be AI can be used time feedback	, , , , , , , , , , , , , , , , , , , ,
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Group Debate: Al and Job Displacement (25 minutes)	
Debate the motion: "AI will replace human workers in the next decade."	
While AI has the potential to automate certain jobs, it is unlikely to replace human workers entired Instead, AI is likely to augment human capabilities and create new job opportunities in fields such development, deployment, and maintenance.	
Group Debate: AI Ethics (25 minutes)	
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Complete a le	earning center activity on AI and job displacement.
potential imp	ters can provide students with a hands-on and interactive way to learn about AI and its act on employment. This activity can be tailored to different learning styles and abilities, ual, auditory, and kinesthetic learners.
Differentiate	ed Activity: Tiered Assignments (20 minutes)
Write a short	summary or create a presentation on the benefits and drawbacks of AI in education.
Tiered assign Al and its pot	summary or create a presentation on the benefits and drawbacks of AI in education. Imments can provide students with a range of options for demonstrating their understanding of tential impact on education. This activity can be tailored to different ability levels, including or require additional support or challenges.
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Create a Kahoot quiz o	n Al-related topics.
	rning tool that can be used to create interactive quizzes and games. This activity ca a fun and engaging way to learn about AI and its potential impact on society.
Digital Learning Too	ol: Google Jamboard (15 minutes)
Digital Learning 100	
	to brainstorm and take notes on AI ethics.
Use Google Jamboard	
Use Google Jamboard Google Jamboard is a This activity can provid	to brainstorm and take notes on AI ethics. digital learning tool that can be used to facilitate collaboration and brainstorming.

Reflection and	Conclusion (10 minutes)
Reflect on what y	ou have learned about AI and its implications.
	reflect on what you have learned about AI and its potential implications. This activity cars with an opportunity to think critically about the benefits and drawbacks of AI and its on society.
Assessment (1	I 0 minutes)
Evaluate student	participation in group debates and discussions.
	nn essential part of the learning process. This activity can provide teachers with an valuate student participation and understanding of AI and its potential implications.

Advanced Concepts

As we delve deeper into the world of AI, it's essential to explore advanced concepts that are shaping the industry. One such concept is deep learning, a subset of machine learning that involves the use of neural networks to analyze data. Deep learning has revolutionized image and speech recognition, natural language processing, and decision-making.

Case Study: Deep Learning in Healthcare

A recent study published in the journal Nature Medicine demonstrated the effectiveness of deep learning in detecting breast cancer from mammography images. The AI algorithm was trained on a large dataset of images and was able to detect cancer with a high degree of accuracy, outperforming human radiologists in some cases.

Activity: Designing an AI System
Imagine you are tasked with designing an AI system to solve a real-world problem. What problem would you choose, and how would you design the system? Consider the type of data you would need, the algorithms you would use, and the potential benefits and drawbacks of the system.

Ethics and Responsibility

As AI becomes increasingly integrated into our daily lives, it's essential to consider the ethical implications of its development and use. This includes issues such as bias in AI decision-making, privacy concerns, and the potential for AI to exacerbate existing social inequalities.

Group Discussion: Al Ethics	
Divide into small groups and discuss the following questions: What are some potential ethical concerns surrounding AI development and use? How can we mitigate these concerns, and what role should governments, corporations, and individuals play in ensuring that AI is developed and used responsibly?	nt
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Reflection:	Personal	Values	and Al

Reflect on your personal values and how they relate to AI development and use. What are your concerns, and what do you think is essential for ensuring that AI is developed and used in a way that aligns with your values?

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Real-World Applications

Al has numerous real-world applications across various industries, including healthcare, finance, transportation, and education. For example, Al-powered chatbots are being used in customer service to provide personalized support and improve customer experience.

Case Study: AI in Finance

A leading financial institution used AI to develop a predictive model that could identify high-risk transactions and prevent fraud. The model was trained on a large dataset of transactions and was able to detect anomalies with a high degree of accuracy, resulting in

significant cost savings for the institution.
Activity: Designing an Al-Powered Solution
Choose an industry or sector and design an Al-powered solution to a real-world problem. Consider the type of data you would need, the algorithms you would use, and the potential benefits and drawbacks of the solution.
Future Directions
As AI continues to evolve, it's essential to consider future directions and potential advancements. This includes the development of more sophisticated AI algorithms, the integration of AI with other technologies such as blockchain and the Internet of Things, and the potential for AI to become more autonomous and self-improving.
Group Discussion: Future of Al
Divide into small groups and discuss the following questions: What are some potential future directions for AI development and use? What are the potential benefits and drawbacks of these advancements, and how can we ensure that AI is developed and used in a way that benefits society as a whole?
Reflection: Al and Society Reflect on the potential impact of Al on society, including the potential benefits and drawbacks. What are your thoughts on the future
of AI, and how can we ensure that AI is developed and used in a way that aligns with human values and promotes the well-being of all members of society?
Conclusion
In conclusion, AI is a rapidly evolving field with numerous applications and implications. It's essential to consider the benefits and drawbacks of AI development and use, as well as the potential future directions and advancements. By working together, we can ensure that AI is developed and used in a way that benefits society as a whole and promotes the well-being of all members of society. Copyright 2024 Planit Teachers. All rights reserved.
Activity: Al and Society
Write a short essay on the potential impact of AI on society, including the potential benefits and drawbacks. Consider the role of AI in promoting the well-being of all members of society and the potential for AI to exacerbate existing social inequalities.
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Assessment

Assessment is an essential part of the learning process, and it's essential to evaluate student understanding of AI concepts and applications. This can be done through a variety of methods, including quizzes, exams, and project-based assessments.

Case Study: AI in Education

A recent study published in the journal Educational Technology demonstrated the effectiveness of Al-powered adaptive learning systems in improving student outcomes. The system used AI algorithms to personalize learning and provide real-time feedback, resulting in significant improvements in student achievement.

Activity: Designing an Assessment	
Design an assessment to evaluate student understanding of AI concepts and applications. Consider the type of question would ask, the format of the assessment, and the potential benefits and drawbacks of different assessment methods.	ns you
Extension	
For students who want to explore AI further, there are numerous extension activities and resources available. This inclu- courses, tutorials, and projects that can provide hands-on experience with AI algorithms and applications.	des online
Group Project: Al-Powered Solution	
Divide into small groups and design an Al-powered solution to a real-world problem. Consider the type of data you would algorithms you would use, and the potential benefits and drawbacks of the solution.	l need, the
Reflection: Al and Future Careers	
Reflect on the potential impact of AI on future careers and the job market. What are your thoughts on the potential benefit drawbacks of AI, and how can you prepare yourself for a career in an AI-driven world?	ts and

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Differentiated Activity: Learning Centers (20 minutes)
Complete a learning center activity on AI and job displacement.
Learning centers can provide students with a hands-on and interactive way to learn about AI and its potential impact on employment. This activity can be tailored to different learning styles and abilities, including visual, auditory, and kinesthetic learners.
Differentiated Activity: Tiered Assignments (20 minutes)
Write a short summary or create a presentation on the benefits and drawbacks of AI in education.
Tiered assignments can provide students with a range of options for demonstrating their understanding of AI and its potential impact on education. This activity can be tailored to different ability levels, including students who require additional support or challenges.

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Assessment (10 minutes) Evaluate student participation in group debates and discussions.
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Assessment is an essential part of the learning process. This activity can provide teachers with an opportunity to evaluate student participation and understanding of AI and its potential implications.

