

 **INQUIRY**

Chat is visible to your teacher

**Brisk Boost**

Hey there! I'm excited to help you explore some core technologies in your field. To get started, can you tell me what area you're focusing on—IT, construction, or manufacturing? And what technology do you think might be significant in that area?

**You**

I'm focusing on manufacturing, I think 3d printing and artificial intelligence are significant technologies in this area.

**Brisk Boost**

Great choices! Both 3D printing and artificial intelligence are indeed impactful in manufacturing. I'd like to hear your thoughts first. Can you explain how you think 3D printing is changing the manufacturing landscape?

**You**

3d printing allows more customization and personalization in manufacturing, for things like prosthetics, it's easier to make. I also think that it helps in reducing waste. 3d printing uses the exact required amount of material so waste is minimized.

**Brisk Boost**

You've made some excellent points about customization and waste reduction! Now, can you think of a specific example where 3D printing has been applied in manufacturing, perhaps beyond prosthetics?


**You**

3d printing can be found in things like eyewear, aerospace, and more personal specific products in medicine like hearing aids

LEARNING OBJECTIVES

Students will be able to:

- 1. Identify a core technology in their chosen research area (IT, construction, or manufacturing).
- 2. Explain the impact of this technology on their field of study.
- 3. Provide at least two specific examples of how this technology is applied in real-world scenarios.
- 4. Analyze the potential future developments or improvements of this technology in their field.



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Brisk Boost



Those are fantastic examples! The use of 3D printing in eyewear and aerospace really highlights its versatility. Now, let's think about the future. What potential developments or improvements do you see for 3D printing in manufacturing?

You

I think in the future 3d printing include creating pieces for the wellbeing of people. Things like, filtration devices for water in places that have limited access to clean water. And we can think about recent events in the world of people losing their homes, I think 3d printing can quickly provide disaster relief shelters for temporary housing?

Brisk Boost



Those are really insightful ideas! The potential for 3D printing to aid in disaster relief and provide access to clean water is both innovative and impactful. It shows how technology can directly improve lives.

Now, let's shift gears a bit. How do you think artificial intelligence complements or enhances the capabilities of 3D printing in manufacturing?

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Hey there! I'm excited to help you explore core technologies in your field. To get started, can you tell me what area you're focusing on—IT, construction, or manufacturing? And then, what core technology do you think is significant in that area?



You

manufactuinh



Brisk Boost



Great! You're focusing on manufacturing. Can you share what core technology you think is important in that field? I'd love to hear your thoughts on it!



You

I think the core tech is AI tech



Brisk Boost



AI technology is definitely a significant core technology in manufacturing! Can you explain how AI impacts the manufacturing industry? What specific applications do you see it having in real-world scenarios?



You

I see Ai improving more medical devices helping with cures to many things



Brisk Boost



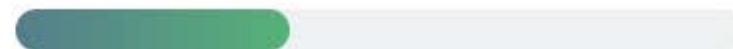
That's an interesting perspective! While AI does play a role in medical devices, could you think of specific examples within manufacturing where AI is applied? For instance, how does it help in production processes or quality control?



You

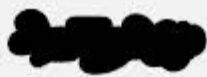
I dont know what are your thought

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You

I dont know what are your thought



Brisk Boost



I appreciate your honesty! I'd like to hear your thoughts first. Can you give it a first try? Think about how AI might be used in manufacturing, like in robotics or predictive maintenance.



You

to make devices to help make daily life better



Brisk Boost



That's a good start! AI can indeed help create devices that improve our daily lives, but let's dig a bit deeper. Can you think of specific examples, like how AI might be used in a factory setting for things like automation or efficiency?



You

no



Brisk Boost



That's totally okay! It can be challenging to think of specific examples. How about considering how AI is used in robotics for assembly lines or in quality control to detect defects? Can you try to build on that idea?



You

I think that ai is used in robotic assembly lines my keeping things in order

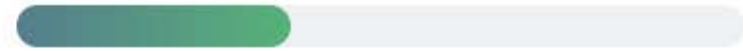


Brisk Boost



That's a solid example! AI does help keep things organized and efficient on robotic assembly lines. Now, can you think of another specific application of AI in manufacturing, maybe related to quality control or predictive maintenance?

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Brisk Boost



That's a solid example! AI does help keep things organized and efficient on robotic assembly lines. Now, can you think of another specific application of AI in manufacturing, maybe related to quality control or predictive maintenance?



You

I think that it will help keep everything in line and when something gets out of line it prompts people to reset line



Brisk Boost



That's a great insight! AI can indeed monitor production lines and alert workers when something goes wrong, which helps maintain efficiency. Now, let's think about the future. How do you envision AI technology evolving in manufacturing? What improvements or new applications do you think we might see?



You

Better and more reliable sources



Brisk Boost



That's a thoughtful response! Better and more reliable sources would definitely enhance AI's effectiveness in manufacturing. Can you think of any specific technologies or innovations that might contribute to this reliability in the future?



You 🔴

better education technology for kids



Brisk Boost



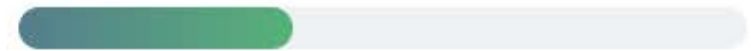
Let's keep our focus on manufacturing and AI technology. Can you think of how AI might be used to improve processes or reliability in manufacturing specifically?



You

I think it will hold people accountable for this problems

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You

I think it will hold people accountable for this problems



Brisk Boost



That's an interesting point! Holding people accountable is important in any field, including manufacturing. AI can indeed help track performance and identify areas for improvement. Now, can you think of any specific future developments in AI that might enhance accountability in manufacturing processes?



You

better production lines, better instructions leading to better work



Brisk Boost



That's a great thought! Better production lines and clearer instructions can definitely lead to improved efficiency and accountability. Now, can you think about how AI could specifically contribute to creating those better instructions or optimizing production lines?



You

By giving better ideas on how to make things work



Brisk Boost



That's a solid point! AI can analyze data and provide insights that help improve processes and workflows. Now, can you think of any specific technologies or methods that AI might use to generate those better ideas for production?



You

AI is used in manufacturing which leads to better technology in cars

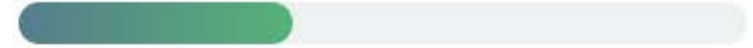


Brisk Boost



That's a great example! AI is indeed transforming the manufacturing of cars, leading to innovations like autonomous driving and enhanced safety features. Can

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Brisk Boost



That's a great example! AI is indeed transforming the manufacturing of cars, leading to innovations like autonomous driving and enhanced safety features. Can you think of how these advancements might impact the future of transportation or the automotive industry as a whole?



You

Better navigation systems



Brisk Boost



Better navigation systems are definitely a key advancement that AI can enhance in cars! This can lead to safer and more efficient travel. Can you think of any specific ways that improved navigation systems might change how we drive or travel in the future?



You

We will have a better grasp on where we are going so we wont get as distracted leading to less accidents



Brisk Boost



That's a fantastic observation! Improved navigation systems can indeed help drivers focus more on the road, potentially reducing distractions and accidents. Now, can you think of any other real-world implications of AI in manufacturing beyond navigation, perhaps in terms of production efficiency or sustainability?



You

Ai has been helped my study by giving me helpful information that I can use in this feild

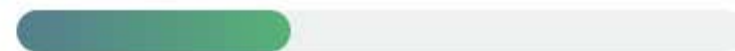


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That's great to hear that AI has been helpful in your studies! I'd love to hear more about how you've used that information in your field. Can you share a specific

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Brisk Boost



That's great to hear that AI has been helpful in your studies! I'd love to hear more about how you've used that information in your field. Can you share a specific example of how AI has impacted your learning or understanding of manufacturing?



You

it has helped by giving me information that I can use to understand everything more fully



Brisk Boost



That's a solid point! Understanding the information more fully is key to mastering any subject. Can you think of any specific areas in manufacturing where AI has provided you with insights that changed your perspective or enhanced your knowledge?



You

I dont know

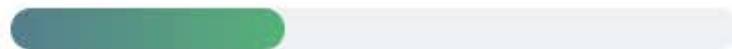


Brisk Boost



That's okay! It can be tough to pinpoint specific examples sometimes. How about considering a technology like predictive maintenance? This is where AI analyzes data from machines to predict when they might fail. Do you think this could impact manufacturing, and if so, how?

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