



The Nation's Favorite Fun Family Newspaper
 Kidsville News! Brainworks Worksheet
 February Enrichment Activities
 Grades 3-6



Students: After reading "Connections," use information from the article to complete the matching activity below. Draw a line from the term on the left to its matching definition or fact on the right.

Instructions: Match the terms on the left with the definitions or facts on the right by drawing a line between the two.

Terms

Definitions

- | | |
|------------------------------------|--|
| 1. mechanical engineering | study of numbes, shapes and patterns |
| 2. electrical engineering | assisted transmisson of signals |
| 3. biomedical engineering | allows users to control appliances at home |
| 4. physics | ability of a computer program to think and learn |
| 5. mathematics | examines how objects are moved by forces |
| 6. chemistry | studies manipulating and encoding information |
| 7. mechanics | deals with chemical elements and compounds |
| 8. computer science | explains how things love in space and time |
| 9. artificial intelligence | study of medical equipment used in care |
| 10. home automation | develops things that use electricity |
| 12. Programming/telecommunications | applies mechanics and material science |



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Students: After reading "Around the World," answer the following questions in complete sentences. If you need more space, you can use the back of this sheet.

1. What is the relationship between robots and artificial intelligence?
2. What is the mission of artificially intelligent robots?
3. Much research is conducted on the uses of artificial intelligence; explain the goals of this research.
4. Describe some successful examples of artificially intelligent robots.
5. How are artificial intelligence and robotics used in the media?



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Students: After reading "Wildville," write an adventure story about the Marine Corps Robotic Dog. Will the dog help save someone's life, uncover a spy or help avert an attack on our country? Be creative! If you need more room, turn this paper over and continue writing or add more pages. Parents and teachers: Stories will vary.



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Answer Key



Students: After reading "Connections," use information from the article to complete the matching activity below. Draw a line from the term on the left to its matching definition or fact on the right. Parents and teachers: Answers are below.

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Answer Key

Students: After reading “Around the World,” answer the following questions in complete sentences. If you need more space, you can use the back of this sheet.
Parents and teachers: The answers are below.

1. What is the relationship between robots and artificial intelligence?

AI helps make robots more independent, giving them the tools to make “free decisions.”

2. What is the mission of artificially intelligent robots?

The mission of artificially intelligent robots is to complement the work of humans and help people do their jobs better.

3. Much research is conducted on the uses of artificial intelligence; explain the goals of this research.

The goal of AI research is to create computer programs that can learn, solve problems and think logically. Some of the fields of study that use and benefit from AI research are computer science, mathematics, linguistics, psychology, neuroscience and philosophy.

4. Describe some successful examples of artificially intelligent robots.

In 1997, Deep Blue, a high-tech AI program that was the first of many, became the first computer program to beat the chess world champion, Garry Kasparov. In 2011, IBM Watson beat the top two “Jeopardy!” players, Brad Rutter and Ken Jennings. Five years later, Google’s AlphaGo beat top “Go” player Lee Sedol four out of five times.

5. How are artificial intelligence and robotics used in the media?

AI is used in movie streaming services like Netflix that provide you with recommendations of other shows to watch. Robotics is used on internet websites when chatbots, not humans, help answer your questions. AI also ranks websites in your search results when you “surf the web.”



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