

Name _____

Gap-Fill: Agent Types

Artificial intelligence agents come in different types, depending on how they make decisions. Some are very simple and only react to the present moment. Others can plan ahead, measure which option is best, or even improve themselves over time.

In the passage below, you will read about four main types of AI agents: **Reactive Agents, Goal-Based Agents, Utility-Based Agents, and Learning Agents**. Some key terms are missing-fill them in using the **Word Bank** at the bottom.

Word Bank - Utility-Based, Reactive, Learning, Goal-Based

1. _____ agents are the simplest kind. They respond directly to the environment without planning ahead. A robot vacuum that turns when it hits a wall is an example.
2. _____ agents think about future states and aim to reach a desired condition. A navigation app finding directions to a destination is a good example of this type.
3. _____ agents go beyond just reaching a goal-they compare different options and choose the one that provides the greatest overall benefit. For instance, a ride-hailing app might compare several routes and choose the fastest and cheapest one.
4. _____ agents can improve their performance by learning from experience. A speech recognition system that gets better at understanding your voice over time is an example.

Reflection Questions

1. Which type of agent seems the most human-like? Why?
2. Which type of agent do you think would be the most useful in everyday life? Explain your choice.

