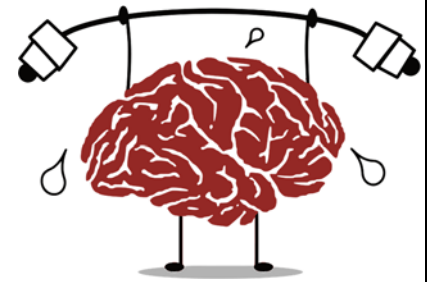


Name _____

Agent Scenario Match-Up

Artificial intelligence agents can be designed in many different ways. Each type of agent has a unique role and works best in certain situations. Some are **reactive**, responding quickly to immediate events. Others are **planners**, thinking ahead to reach a long-term goal. Some are **conversational**, built to chat with people, while others are **recommenders**, suggesting options based on your preferences. In this activity, you will match **real-world problems** with the type of AI agent that could help solve them.



- _____ 1. A busy city needs to adjust stoplights in real time so cars don't get stuck in traffic jams.
- _____ 2. A customer visits a website and wants to chat with a virtual assistant about returning an item.
- _____ 3. A music app suggests songs based on what you've been listening to all week.
- _____ 4. A fitness tracker monitors your steps and heart rate, then encourages you to stay active.
- _____ 5. A video game enemy quickly changes its moves depending on the player's actions.
- _____ 6. A delivery company wants to find the shortest route to drop off packages in many neighborhoods.
- _____ 7. A language app answers grammar questions and holds conversations with learners.
- _____ 8. A bank uses AI to check for unusual spending patterns that might signal fraud.
- _____ 9. An online store recommends products by comparing your shopping habits with those of other customers.
- _____ 10. A smart home system learns your daily routine and adjusts the thermostat automatically to save energy.

- A. **Reactive Agent** - Responds instantly to what is happening right now, without memory or planning.
- B. **Planner Agent** - Thinks ahead, planning steps to reach a long-term goal.
- C. **Conversational Agent** - Uses language to interact and communicate with people.
- D. **Recommender Agent** - Suggests items or content based on preferences and data.
- E. **Monitoring Agent** - Watches for important signals or patterns and reports them.
- F. **Game Agent** - Controls characters or actions in games, adapting to players.
- G. **Routing Agent** - Finds the most efficient paths for transportation or delivery.
- H. **Personal Assistant Agent** - Learns routines, manages schedules, and adjusts environments.
- I. **Fraud Detection Agent** - Monitors financial activity for suspicious or unusual behavior.
- J. **Health Tracking Agent** - Collects and analyzes health-related data for personal use.