

Name \_\_\_\_\_

## Feedback Loop Detective - Solve the AI Mystery Answer Key

### Detective Work

#### Case A: The Self-Driving Car

1. **Input** - The car's sensors detected a stop sign.
2. **Output** - The car drove through the intersection without slowing down.
3. **Feedback** - The safety driver hit the brakes and reported the error.
4. **Retraining** - The AI updated itself so next time it would stop.

#### Case B: The Voice Assistant

1. **Input** - A person said: "Play Firework by Katy Perry."
2. **Output** - The AI misheard and played another artist's song called *Fireworks*.
3. **Feedback** - The user told the AI: "That's wrong, this is a different song."
4. **Retraining** - The AI saved the correction and learned to better recognize the request.