# Pre-Listening Activity: Prior Knowledge Activation

## Discussion Prompts

- Have you or anyone in your family ever taken antibiotics? What were they for?
- What do you think antibiotics do in your body?
- Where do you think medicine comes from? How is it discovered?
- What do you know about bacteria? Are all bacteria harmful?

## Quick Write (3 minutes)

Before listening, write down everything you know about:

- Bacteria
- How medicines are discovered
- What makes humans different from bacteria

# During-Listening: Graphic Organizer

## Fleming's Discovery Timeline

| What Happened? | When? | Why Was It Important? |
|---|---|---|
| Fleming returned from vacation | | |
| Noticed mold on petri dish | | |
| Observed bacteria dying near mold | | |
| Penicillin mass-produced | | |

## Listening for Curriculum Connections

**Technology in Science (B1.1):** What technologies helped Fleming make his discovery and share it with the world?

**Unicellular vs. Multicellular (B2.5):** Complete this comparison chart while listening:

| | Bacteria (Unicellular) | Humans (Multicellular) |
|---|---|---|
| **Number of cells** | | |
| **How cells work** | | |
| **Cell specialization** | | |
| **Example mentioned** | | |

**Organization of Cells (B2.6):** What levels of organization did the podcast mention?

Cells → _____ → _____ → _____

## Key Vocabulary Tracker

Listen for these words and write what you think they mean based on context:

- **Bacteria:** _____
- **Petri dish:** _____
- **Penicillin:** _____
- **Microscope:** _____
- **Fermentation:** _____
- **Unicellular:** _____
- **Multicellular:** _____