

## Objective

By the end of this lesson, you will understand the concept of osmosis and how it is portrayed in the movie Osmosis Jones.

## Materials and Prep

- Access to watch the movie Osmosis Jones
- Notebook and pen for taking notes
- Basic understanding of cells and biological processes

## Activities

- **Watch Osmosis Jones:** Start by watching the movie Osmosis Jones and pay close attention to how osmosis is depicted in the body.
- **Take Notes:** While watching the movie, jot down key scenes or dialogues that relate to osmosis.
- **Discussion:** After watching the movie, have a discussion about the accuracy of osmosis portrayal and any creative liberties taken for entertainment.
- **Research:** Research real-life examples of osmosis in the human body and compare them to the movie's representation.

## Talking Points

- **Introduction to Osmosis:** "Osmosis is the movement of water molecules across a selectively permeable membrane from an area of higher concentration to an area of lower concentration."
- **Osmosis in Cells:** "In the movie Osmosis Jones, we see how osmosis plays a role in the functioning of the cells within the body, such as when nutrients are absorbed."
- **Accuracy vs. Fiction:** "While the movie takes creative liberties, it does capture the essence of how osmosis works in a fun and engaging way."
- **Real-life Applications:** "Understanding osmosis is crucial in biology as it explains how cells maintain their internal balance and how substances are transported across cell membranes."