Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I CAN** explain how materials move in and out of a cell.

Period \_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Into and Out of the Cell**

Chapter 4 Section 1

Complete this worksheet after you have finished reading Chapter 4, Section 1.

Each of the boxes below represents a different method cells use to bring small particles into the cell or to take small particles out of the cell.

Add the notes at the bottom of the page to the appropriate box.

Be careful—some notes can be used more than once.

**Small Particle Transport**

|  |  |  |
| --- | --- | --- |
| **Osmosis** | **Passive Transport** | **Active Transport** |
|  |  |  |

**Notes**

--particles move through --requires ATP --particles move from an

protein doorways area of low concentration

--particles move from an to an area of high

--particles move through area of high concentra- concentration

cell membrane between tion to an area of low

phospholipid molecules concentration --water

--sugar or amino acids --does not require ATP