

# At the Nanoscale



## Summary

“At the Nanoscale” is a static component that aims to show just how super small one billionth of a meter, or one nanometer, really is. It is mounted to the backside of the *Intro to Nanotechnology* video kiosk. The copy panel and video monitor guide visitors through the concept of scale way down at the nano level.

### A Billion Beads

A Billion Beads is an activity where visitors inspect tubes that hold quantities of one thousand tiny beads, one million beads, and one billion beads. To the naked eye, the tube containing one thousand beads appears nearly empty. Visitors see that the next tube, partially filled, contains one million beads. Finally, to compare, a four-foot tall container nearly full contains approximately one billion beads.

This multimedia static component consists of one copy panel, three containers that hold different quantities of beads, and a flat-screen monitor that scrolls through various slides. Like all of the exhibit components in the *Intro* package, headphone listening stations with both English and Spanish audio description labels are included. These audio labels serve two functions—to explain the “Big Idea” content of the exhibit and to provide illustrative descriptions of the interactive experience.

## Learning Goal

- Things at the nanoscale are super small.

## Exhibit Details

Audience: 7 and up

Exhibit Format: Stand-Alone Exhibit Component  
 Part of *Introduction to Nanotechnology* package

Exhibit Dimensions: 54”w x 31 ½”d x 78”h