

Overview Chart for Hands-on Activities – Quarter 4

Hands-on Activity	Student Objectives
31&32 Trash in Your Class <i>page 347</i>	<ul style="list-style-type: none"> • measure the amount of trash produced daily in their classroom • calculate how long it would take to fill their entire classroom with trash • explore ways to reduce the amount of trash produced in their classroom
33 Recycling Paper <i>page 355</i>	<ul style="list-style-type: none"> • recycle old newspaper into papier-mâché bowls • examine the properties of paper to determine its suitability for other uses • brainstorm ideas for other recycled-paper products
34&35 What Do Plants Need? <i>page 363</i>	<ul style="list-style-type: none"> • compare the growth of seedlings in light and dark conditions • compare the growth of seedlings receiving various amounts of water • observe that plants require light and water to grow • observe the growth of stems toward light
36&37 Stems: Structure and Function <i>page 371</i>	<ul style="list-style-type: none"> • identify the functions of the xylem and phloem • observe the ability of xylem tissue to transport water and dissolved materials through a plant • observe microslide images of plant stems
38&39 Stomata and Transpiration <i>page 381</i>	<ul style="list-style-type: none"> • observe stomata on the underside of a leaf • observe transpiration through leaves • discover that blocking stomata inhibits transpiration • relate the transpiration of water from leaves to the uptake of water from the soil

Process Skills	Vocabulary	Delta Science Reader
measure, use numbers, predict	landfill	
observe, infer, hypothesize	recycle	
observe; compare; collect, record, display, or interpret data	phototropism	<i>Plants in Our World, pages 3–6</i>
observe, compare, conclude	phloem, stem, xylem	<i>Plants in Our World, pages 14–15</i>
observe, compare, infer	guard cells, leaf, stoma, stomata, transpiration	<i>Plants in Our World, page 5</i>