

3-Finger Swipe Up And Down

Action

- **3-finger swipe up:** Scrolls to the next page (moves down the page).
- **3-finger swipe down:** Scrolls to the previous page (moves up the page).

Why are The 3-Finger Swipe Up And Down Gestures Important?

- These are the “**scrolling**” gestures, allowing users to scroll down/up pages of content in apps.
- Common uses:
 - Scroll down/up a long document or long applications
 - Scrolling down/up web pages

Prerequisites

- 1-finger Swipe up/down
- 2-finger swipe up/down
- 3-finger swipe left/right

Warm Up Activities

Understanding Scrolling Direction

- The **3-finger swipe up** moves the screen **down**, revealing the next page.
- The **3-finger swipe down** moves the screen **up**, returning to the previous page.
- This may feel **opposite** to natural expectations, so practice is helpful.

Activity: Scrolling with a Calendar

- Place a closed calendar on a flat surface, with the spiral at the top.
 - If possible, use a braille calendar or place tactile symbols on pages that can be scrolled up and down (not right and left), ensuring the symbols are positioned right-side up.
- Ask the child to flip to the next month and describe the movement: “Grab the bottom edge and pull it up.”
 - Model by using three fingers and thumb to grasp the bottom edge of the paper and pull it up to “scroll” to the next month.
- Repeat for the previous month: “Grab the top edge and pull it down.”
- Reinforce this concept using the 3-finger swipe on an iPad.

Tip: If a calendar isn't available, fold a piece of paper in half with the fold at the top. Label the pages tactually for additional clarity. Use the folded paper for the scrolling calendar activity.

Physical Gesture

- Fingers should be relaxed, slightly apart, and slightly bent.
- Similar to the 2-finger swipe up/down but using three fingers.
- Hand Position:
 - Create a fist and extend the index, middle, and ring fingers.
- Fingers should be facing the top of the iPad screen.
 - Move the fingers and hand slightly up or down to scroll.
 - Use the push up or pull-down motion.
 - Movements should be about 1 inch (2.5 cm).

Modification

- **Straighten or curl fingers**
 - Some children prefer to:
 - Flick their fingers out straight (scroll up) to move to the next page.
 - Curl their fingers in (scroll down) to move to the previous page.
- **Open palm swipe**
 - For children with good finger coordination, prompt them to hover their open hand, palm down, and use only three fingers to swipe up/down.
- **Braille Display or Bluetooth Keyboard**
 - 3-finger gestures may be difficult for young children.
 - If a child struggles with finger isolation, introduce a refreshable braille display or Bluetooth keyboard for easier scrolling and other more physically challenging gestures.

Earcon

- The **3-finger swipe** produces the standard "new screen" earcon: three ascending tones.

Common Issues

- **Gesture not recognized:**
 - **Cause:** 1, 2, or 4 fingers touch the screen.
 - **Fix:** Ensure 3 fingers are touching the screen.
 - **Cause:** If fingers are stiff or together, the longer index finger may touch the screen before the other fingers, causing the gesture to be interpreted as a 1-finger gesture.
 - **Fix:** Keep fingers relaxed, separated, and slightly bent.
- **Wrong page turned:**
 - **Cause:** Swiping in the wrong direction.
 - **Fix:** Understand the direction of the 3-finger gesture.
 - 3-fingers swipe up moves to the next page while a 3-finger swipe down moves to the previous page.

Lessons

Lessons without detailed explanations were covered in previous lessons.

Lesson 1: 1-finger swipe up/down

Lesson 2: 2-fingers swipe up/down

Lesson 3: 3-finger swipe up/down

- **Goal:** Learn the 3-finger swipe up/down gestures
- **Screen layout:**
 - The screen starts with a Party Planner image.
- **Breakdown:**
 - The child performs a 3-finger swipe up to scroll to the next page.
 - A marching band plays.
 - The child performs a 3-finger swipe up to scroll to the next page.
 - A zoo screen appears, and an elephant sound is heard.
 - The child performs another 3-finger swipe up to scroll to the last page.
 - A hockey player appears, and the organ plays a hockey song.
 - The child performs 3-finger swipe down gesture, three times to move back through the party options and completes the lesson.

This structured approach helps children develop essential scrolling and navigation skills for reading, web browsing, and app interaction, while practicing the 3-finger scroll up/down gestures.