

CREATEKIT™

Assistive Device Lesson Directions Overview

Equipment List

- 2 Hydraulic Kits
- 50 Plastic Cups
- 2 Skeins of Yarn
- 12 Felt Sheets
- 100 Cardboard Sheets (8" x 10")
- 320 Assorted Rubber Bands
- 2 Glue Bottles (4 oz)
- 75 Cardboard Modeling Rolls
- 2 Rolls Vinyl Tape
- 100 Pipe Cleaners
- 100 Jumbo Craft Sticks

Learning Objectives

- Students use the Engineering Design Process to develop assistive devices that make everyday activities more accessible for an individual living with motor coordination challenges or precautionary restrictions.
- Students explore potential career pathways through hands-on problem-solving related to real-world scenarios.

Grade Levels: Upper Elementary & Up

Vocabulary Covered

- Assistive Device
- Biomedical Engineering
- Motor Skills
- Flexion
- Extension

NGSS Topics Addressed

- Engineering Design