

Controlling the Environment: Switches and Mounting for Access



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Today's Presenter



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Goals of Session

- Increase knowledge of switches
- Increase your knowledge of mounting
- Take away multiple ideas to integrate technology into your student's day

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Getting Started

- It is important to take the proper positioning of switches, communication devices, and environmental controls seriously.
- If overlooked, it can mean the difference between success and failure, comfort and fatigue, efficiency and wasted effort.
- Selecting the right tools enable persons with disabilities to participate in a broad range of everyday activities at home, at work, in classrooms.
- Empower individuals to increase their independence, growth and progress.

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Technical Specifications

Model	Color	Material	Weight	Dimensions	Power	Speed	Capacity	Features
Big Blender®	Blue	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Big Blender™	Red	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Big Blender™	Green	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Big Blender™	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Buffy Blender™	Red	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Buffy Blender™	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Family Link™	Yellow	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Cap Switch	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Ultra Switch	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Cap Switch	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Pro	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Switch	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Jacky Blender™	Red	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Jacky Blender™	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Jacky Blender™	Green	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Jacky Blender™	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book
Mini Light	Black	Plastic	11.5 lbs	15.5" x 11.5" x 11.5"	150W	15,000 RPM	40 oz	• 10-Speed • 10-Setting • Recipe Book

Switches


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Switches

- A switch is an interface between an individual and an object of control.
- Objects can be a computer, toy, radio, light, fan, appliance and even an iDevice.

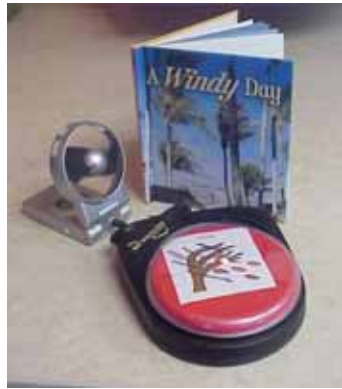




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Switch vs. VOCA



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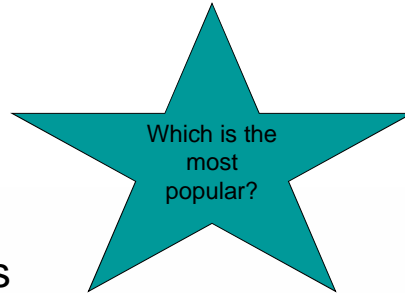
Let's Play

- Insert pig video

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Switch Sites

- Head
- Hands
- Mouth
- Feet
- Lower Extremities
- Upper Extremities



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Ideal Switch Site

Small and isolated movement

Voluntary movement

Activation:

Control

Sustain

Control release



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Switch Guidelines

- What is the most repeatable activation method—hands, head, mouth, muscle contraction, etc?
- What device needs to be controlled? What is its location and connection type?
- How does the switch need to be positioned for repeatable activation with the least possible fatigue for the user?
- Do cords limit successful interaction with products?



How it all started!



- BIG Red - 5 inches
- Jelly Bean – 2 ½ inches
- Specs – 1 3/8 inches
- Audible click
- 6ft cord
- Twist Tops
- Durability



Simple Switches



- Micro Light
- Big Buddy Button
- Small Buddy Button
- Pillow
- Trigger Switch
- Grasp
- Mounting Plates



Specialty Switches

- Switches may vary in size, shape, color and sensitivity.



Wireless Switches



- Jelly Beamer wireless
- Jelly Beamer wireless SLAT
- Mini Beamer SLAT



Now I can access...

- Battery-adapted Items
- VOCA
- Electrical Appliances
- Computers
- iDevices



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Battery-Operated Appliances



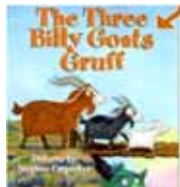
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Feel the Breeze!



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Activate Engagement



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Play a Game



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All-Turn-it Spinner

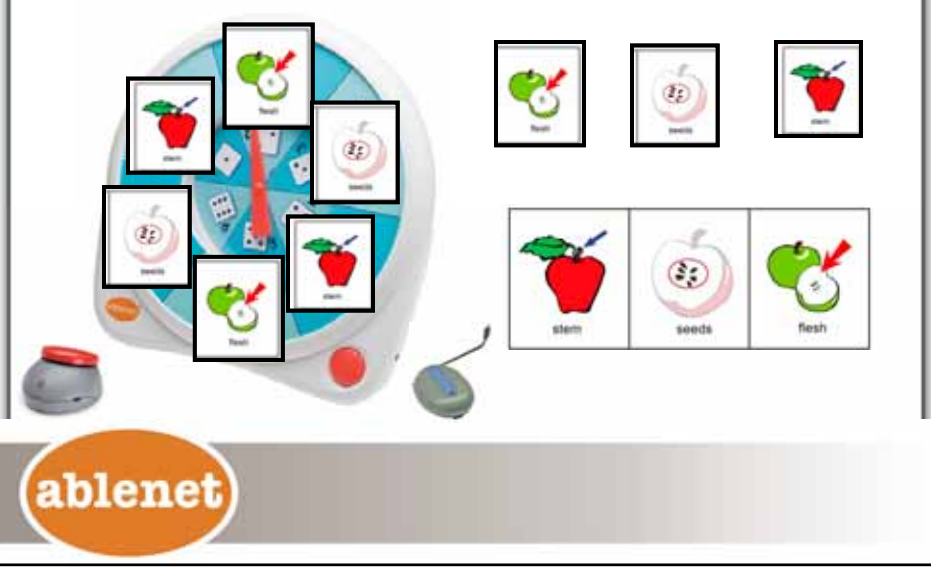
- Puzzle pieces
- Art project
- Letters
- Numbers
- Names/photos
- Jobs
- Content pic symbols
- Games



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Practice Apple Vocabulary

Matching Parts of an Apple



The image shows an interactive software interface for a matching game. On the left is a large, stylized apple with a red stem and a green leaf. Several smaller cards are placed on its surface, each showing a different part of an apple (stem, seeds, flesh) with a corresponding label. To the right of the main apple are two rows of three cards each, also showing different parts of an apple with labels. The bottom of the interface features the 'ablenet' logo in an orange oval.

Access to Print Materials



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BookWorm

- SD cards
- LCD screen
- Single switch or direct access
- Function lock
- Magnet-system
- Operates with 4 AA batteries
- Power jack available for purchase
- External headphone jack



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AAC Access

External Switch Ports



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AAC Access

External Switch Ports



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Wireless Switch Access

PowerLink4

- Controls two appliances
 - independent of each other

Jelly Beamer Transmitter

- Wireless control
 - Easy to Assign
 - No separate receiver needed
 - 30 feet transmission range, not line of sight




Lange 10/2011

Science Unit Programmatic Devices



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Classroom Projects

Vocational skills center



Go Wireless! Plug an electrical appliance into the **Powerlink 4 Control Unit** to create a permanent Vocational skills center. Activate appliances using the **Jelly Beamer wireless switch**.

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Healthy Snacks



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<http://www.ablenetinc.com/Support/Remarkable-Ideas>

Remarkable Idea

1) Access

2) Communication

3) Environmental Control

Summary of Activity

Remarkable Idea

Getting Ready

Activity Steps

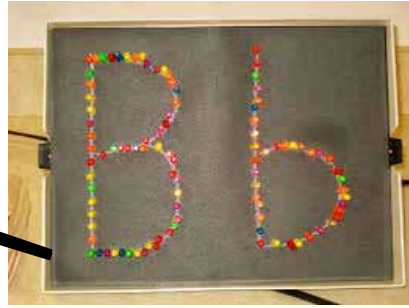
Script



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Concepts of Print



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Reading Light



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Math Time



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Let's Count















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Add video



Core Language Overlay



help 	change overlay 	stop 
I want 	me 	you 
bowl 	go 	strike 
some 	more 	like 





Computer Access



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Computer Access



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csabile atonabile unisabile

Switch Accessible Software

- Laureate Learning Systems
 - <http://www.laureatelearning.com>
- MarbleSoft
 - <http://www.marblesoft.com>
- Inclusive Technology
 - <http://www.inclusive.co.uk/>
- Priory Woods – FREE
 - <http://www.priorywoods.middlesbrough.sch.uk/>
- TarHeel Reader – FREE
 - <http://tarheelreader.org/>
- -Free switch sites
link<<http://www.pinterest.com/pin/506584658057361723/>

NEW Blue2™



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Works with SoundingBoard app for wireless access!

YouTube Resources

- Single Switch Auto Scanning
 - <http://youtu.be/Mu6eDRazXzs>
- Two Switch Step Scanning
 - <http://youtu.be/MQYMhTdBcz0>
- Angry Birds Demo Video: This video shows Angry Birds in action
 - <http://www.youtube.com/watch?v=w9Qe-oBGoFo>
- App with switch access built into the app and does not require iOS 7 Switch Control
 - <http://youtu.be/sP6naEpsZYM>



In the Classroom



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Compatible iPad Cases

- OtterBox Defender cases
- Gumdrop Drop Tech Series cases
- Hard Candy Drop Series cases
- Griffin Technology Survivor cases
- Belkin cases



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Switch Accessible Apps

APP - Available in iTunes	Skill
Five Sharks Swimming 	Counting /Attending / Listening
Peanut Butter 	Beginning AAC (Augmentative Alternative Communication) skills, Beginning Touch Skills and/or Beginning Switch Skills
Smarty Pants 	Choice Making/ Emotions

SMARTY PANTS video



Available July 22nd

SoundingBoard™ 4.0

FREE AAC app for the iPad, iPhone, or iPod touch.



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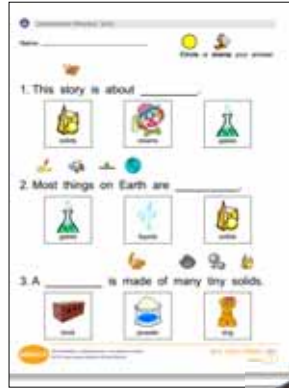
New for SoundingBoard

- 1-to 20 messages
- Screen Rotation
- Change Screen Color
- Set Switch Scanning Options
- Locking Feature
- Exporting Boards

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States of Matter



"That's the one I want!"



Worksheet Answers



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Let's Talk About Mounting!



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Technical Specifications

Product Name	Weight	Height	Depth	Width	Material		Color
					Top	Bottom	
1000-0010	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0011	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0012	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0013	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0014	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0015	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0016	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0017	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0018	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0019	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black
1000-0020	1.5 lbs	12" H	12" D	12" W	Aluminum	Black	Black

Mounting Plates *Some custom products listed on table

- 1000-0021 Large Triangle
- 1000-0022 Small Triangle
- 1000-0023 Large Square
- 1000-0024 Small Square
- 1000-0025 Round Plate
- 1000-0026 Rectangular Plate
- 1000-0027 Round Plate
- 1000-0028 Rectangular Plate
- 1000-0029 Round Plate
- 1000-0030 Rectangular Plate

Low-Tech Mounting Solutions

- Velcro
- Dual Lock
- Permanent attachment
 - Screws into tray or other surface
 - Cut out hole and secure from bottom – cords out of way



Spec Switch

- Three bases
 - Flange
 - Flush
 - Strap
- Headrest
- Hand



Mounting Systems

- Universal clamp
 - attaches to a variety of shapes and sizes
- Knob or lever
 - releases or tightens three ball joints
- Mounting plates
- Appropriate Switch



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create. attach. activate.

Switch Mounts



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Switch Sites



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Positioning of the Mount



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Switch Site



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Switch Site



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iDevice Mounting Kits



Hover™



Friction Knob
Universal Mount



Latitude™



Goose Neck



CLING Eval

- Vacuum base attaches to any flat, smooth surface
- Provides platform for a switch
- Virtually any position – vertical / horizontal, angles



Participation at Science Fair



<http://atclassroom.blogspot.com/2007/07/fifty-nifty-ideas-for-simple-switch.html#.Ut7r4RDnaM8>



Add video



Goals of Session

- Increase knowledge of switches
- Increase your knowledge of mounting
- Take away multiple ideas to integrate technology into your student's day

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