


## Types of Pinches

Lateral


Two-Point
web space may be closed


Three-Point

$\underset{\text { open web space }}{\text { Tip-to-Tip }}$


## Build Foundation Skills Firs $\dagger$

 A child is ready for printing when he/she is able to:1. balance without the use of hands,
2. engage in constructive play,
3. understand up, down, start, stop, big, little, and follow simple spatial directions in 3-D,
4. sit and work for a few minutes at a time,
5. draw and colour beyond scribbling, and 6. hold a pencil in a writing position.



## Development of Grasps \& Strokes

 2-3 years

- Copying I - O
- Utensil stabilized in palm and moves toward index finger
- Hand and forearm move as a unit

Digital grasp

- More refined movement from elbow
- Wrist less rigid



## Development of Grasps \& Strokes

- Copying square, $4 \frac{1}{2}-6$ years triangle, diamond

- Child begins to separate finger movements from
 hand/wrist movements
- Wrist moves into raised angle (extension) for increased stability
(writing on slantboard or easel strengthens this)
Tripod grasp
- More controlled directional changes

- Thumb controls movement




## Visual Regard / Attention

You may notice:

- Looks around room while working
- Hears everything in the room
- Coordinated but poor quality work
- Lack of attention to detail

You may try:

- Look at all the suggestions under "behaviour"
- Add sandpaper or rough masonite under colouring
- Engage in deep pressure/proprioception before fine motor
(wheelbarrel walking, hand squeezes, chair sit ups)
- Try shaving cream drawing or play doh before fine motor
- Use bean or rice bins, water and sand play before fine motor
- Brainstorm ways to increase sensory feedback to hands
- Do hand shakes, hand clapping
- Place fine motor work on slant board or easel when possible. (Also supports wrist extension.)
- Have child face away from action
- Use colouring masks made with card stock.


Heel contact with the floor allows for weight shifting as the hand moves across the paper.

## Good Pelvis and trunk stability is necessary for hand coordination and grasp to develop.



|  | Children should be encouraged to manually explore all aspects of their environment. The development of manipulative grasps can be enhanced through a variety of activities involving reaching with the arms, grasping with the fingers, and manipulating in/between hands. It is important for children to develop their skills in terms of general manipulation and with tools. Coloring and drawing are great activities for kids in terms of grasps necessary for writing. Drawing in the sand, snow, or mud are great, as is drawing with sidewalk chalk, or on an easel with paints. Small pieces of crayon actually encourage a strong and neat fingertip pinch. |  |
| :---: | :---: | :---: |
|  | You might see: | You might try: |
| - | Lack of accuracy | rest forearms on table for stability lean forward increasing weight through forearms be sure materials are not too close or too far away |
| $0$ | Poor isolation of fingers | hold items in space to encourage finger tip grasp <br> stand items up on end, stick in putty |
| - | Awkward reach and manipulation accompanied by poor posture | try alternative postures: prone, standing, kneeling |
|  | Poor wrist stability | wrist support, splint, try a different arm/forearm posture |
|  | Generally weak grasp patterns | provide ample opportunities for manual play, including fun and developmentally appropriate activities (see Building Readiness) |

## You may see:

## Hand/Finger Dexterity

- Larger, less refined movements
- Immature or awkward movements
- Fidgeting
- Dropping
- Increased frustration with building and copying tasks
- Difficult with smaller more refined movement
- Child can't color well between lines
- Child cannot copy shapes or pictures
- Teach colouring in small circles. Model all directions as well as turning paper. - Colour with small bits of crayons. Use wikki-stix or raised glue borders to encourage targeting - Save money! Use a bank or decorate a coffee can with a small slot in the plastic cover. Open to count every now and then, then see who can insert the coins fastest. Line up the coins on a table and have the child flip them to all heads or all tails. Challenge the child to pick them all up in one hand, one at a time, holding them in the palm without dropping any.
- Practice turning a wind up toy. Try the large 'key' then the small 'knob' types.
- Play with finger puppets. Have the child wear different puppets on different fingers of the dominant hand and make the puppets interact.
- Modify the above by using a dab of different color paint on each fingertip. Have the child make certain colors meet, do circles, play 'Simon says' etc. Or repeat tapping sequences with those fingers. Or name a color and have the child extend only that finger and wiggle it.
- Operate a squirt bottle or water pistol.
- Practice spelling the alphabet in sign language. The library has books which contain the alphabet...learn together to form a code!
- Use modeling clay, silly putty, play-dough, etc. Use cookie cutters to make
objects or shapes. Roll it out, poke holes in it with fingers, pinch it, pull it, twist
it, etc. Roll it into a snake, then use it to form shapes, letters, pictures, etc. Hide small objects/coins in a ball of it and have the child find it.
- Roll putty or dough into small balls, using one hand, to make beads.
- Practice having the child hold 3-5 paper cups in one hand, using a finger in each cup. Start out empty, then half full, then full. Have a race with filled cups!
- Use small stamps and stamp pads to create patterns, cards, pictures, etc.
- Tear small pieces of tissue paper, then roll each piece into a ball using thumb and index finger. Make a picture and glue the little balls in place for 3-D art.
- Turn over checkers, cards, or coins, without sliding them to the edge of the table.
APP STORE - Dexteria, Bugs \& Buttons, Crayola Apps


## Readiness for Writing - More Visual-Motor

The following activities are intended to build pre-writing skills. These involve fine motor control, eyehand coordination, and spatial perceptual skills as well, but are geared more to develop the grasp, concepts, and patterns used in writing.

- Trace designs with pencil/marker.
- Copy designs with pencil/marker.
- Working left to right on large piece of paper, create a flowing design (waves, zig-zag) and have the child try to trace along the path.
Do rainbow writing. Draw a word, letter, shape or picture. Have the child trace it with one color, then another, then another, etc. This is a great way to help a child remember a shape, letter, word, or name.
- Finger paint.
- Form shapes, letters, and numbers, using a stick in the sand, mud, etc. Also try sidewalk chalk.
- Use a paintbrush with plain water to paint a design on the road, sidewalk, brick wall, or the house.
- Use your fingers to make shapes, letters, and numbers on a surface covered with shaving cream, pudding, finger paint, sand or mud.
- Use a wand with a streamer or ribbon at the end to form shapes etc. in the air.
- Coloring is great. Some books are very easy and some are very hard.
- Again, dot-to dots, mazes, etc. are great.
- Use beans, rice, acorns, seeds, etc. to draw and fill in a picture, using glue.
- Magna Doodle or Etch-A-Sketch are good pre-writing fun.
- Practice using stencils. There are the kind you trace on the outside and easier ones that you trace along the inside of a cut out.
- Paint, color, draw on paper taped to a wall or on an easel. Good for arm/shoulder/trunk strength.
- Paint a design on a piece of wood or a rock.


## APP STORE - Drawing for Kids, How To Draw



## Fine Motor Red Flags

## Avoidance of fine motor tasks

Delayed emergence of hand dominance
Not crossing midline
Ignoring one hand (bilateral hand use)

- $\quad$ Lack of progression with grasps
-) Excessive problems in any of the above areas





## Getting Ready To Write

## Grasp

Uncomfortable Grasps



Modified tripod with closed web space

Fingers work against thumbs, joints bend back, hands tire

## Using

 Sometimes, a 'grip' is placed on a pencil to assist with correct grasp. This is generally a temporary measure to help the child learn. For some children, the added feel or visual prompt continues to promote a good grasp.Some, like the foam sleeves (right) provide a soft visual cue and help when children hold the pencil too far up or down on the shaft of the pencil. They act as a visual target for finger placement, just as a piece of tape or rubber band would.

Others, like the blue triangle grip (above left) actually help to separate the fingers and thumb so they do not overlap each other and get in the way of smooth, effortless writing.

## Pencil Grips



The best way to start is with the twist'n write pencil (above) which establishes a motor memory of a good grasp, and strengthens thumb.


## Getting Ready To Write

## Types of Paper

## Unlined - noguide for eleterer placenent, faciltates s sinve motor memorry

## Lined - challenges space end posstion

Interlined paper - dashes between ineso of poper
provides visual cue for letter alignment, look at different styles
Raised lined paper - mondes staticecuer oteep beters on the baseline, also in different formats


## Getting Ready To Write

## Types of Paper

Smart Start Writing Paper \& Raised Line-
http://shoponline.pfot.com/writingclassroom-ss3.htm


For all types of paper, also consider: width between the lines of the page boldness of the lines of the paper



## Printing/ Written Output Really Writing!

If students demonstrate readiness, it makes more sense to teach lower case letters first

Lower Case Letters
(Grouped by formation)
lhbktf
irnmpju
cadgqseo vw X y Z

Upper Case Letters
(Grouped by
formation)
FELHTI
DPBRJU
OQCGS
V WMNAKXYZ

## The "Box \& Dot" Worksheet

for practice after teaching
Figure 1. Lower Case Printing, Box and Dot



## ITCHY's ALPHABET



Related Apps:
Little Writer
Pocket Phonics
i write words

ReSOURCeS

