**Anne Arundel County Public Schools**

**Annapolis, Maryland**

**VISION PROGRAM**

**IEP BANK**

###### BRAILLE

##### GOAL: The student will use tactual skills to explore real objects, real shapes and two-dimensional shapes/symbols, with \_\_\_\_% accuracy.

* Manipulate objects with two hands
* Explore objects with one/two hands
* Tactually discriminate common objects
* Name objects after tactually exploring
* Sort objects by touch
* Match objects by touch
* Discriminate textures
* Name textures
* Match textures
* Sort textures
* Identifies shapes
* Matches (3D or 2D) shapes
* Sorts by shape
* Matches objects by size
* Identify concepts of top/middle/bottom
* Identify concepts of left/right
* Identifies same/different Braille shape
* Colors within tactual borders
* Uses pencil/crayon to mark answer choices

**GOAL: The student will demonstrate Braille reading readiness skills, with \_\_\_% accuracy.**

* Identify the spatial position of dots in a Braille cell
* Identify the dot number of a specific dot in a Braille cell
* Track a line of dots from left to right
* Track rows of dots
* Identify beginning/end/breaks on a Braille line
* Tactually explore a Braille page
* Tracks Braille sentences when read aloud by an adult
* Orientates Braille book correctly
* Turns pages in a Braille book one page at a time
* Locates the first Braille line on a page
* Locates the page number
* Uses two hands to track Braille
* Uses pointer finger as lead finger
* Uses middle and ring finger as
* Uses pinky finger to detect the end of a line
* Uses light touch
* Uses two hand separately to track a line of Braille and locate the next line
* Locates name in Braille
* Identifies same/different Braille shape
* Places Braille volumes in correct order
* Identifies the uppercase Braille alphabet
* Identifies the lowercase Braille alphabet
* Identifies the literary Braille numerals 0-10

##### GOAL: The student will demonstrate Braille writing readiness skills, with \_\_\_\_% accuracy.

* Locates/names parts on a Braillewriter: embossing keys, embossing head, carriage return, backspace, line advance, paper feed knobs, paper stops, paper release levers, roller, bell
* Makes random Braille dots
* Insert/remove paper from a Braillewriter
* Operate line advance/carriage return to move to next line
* Operate backspace
* Uses appropriate fingers on keys of Braillewriter
* Uses appropriate finger strength to emboss dots of correct height
* Erases errors with a Braille eraser
* Uses spacebar appropriately
* Sets margins stops on a Braillewriter
* Writes the Braille alphabet
* Write uppercase letters
* Writes name
* Writes the literary Braille numerals 0-10

GOAL: The student will develop skills in reading and writing the Braille code, with \_\_\_\_% accuracy.

(Evaluation for objectives: Braille skills checklists)

* Read/write \_\_\_\_ of 26 whole-word/alphabet contractions
* Read/write \_\_\_\_ of 6 whole and part word contractions (a, and, of, for, the, with)
* Read/write \_\_\_\_ of 42 primary level short form words
* Read/write \_\_\_\_ of 34 intermediate short form words
* Read/write \_\_\_\_ of 11 whole word lower signs (i.e., was, into, by, en, in, be)
* Read/write \_\_\_\_ of 12 part word lower signs (i.e., ea, con, en, in, dd)
* Read/write \_\_\_\_ of 6 whole and part word signs (i.e., st/still, ou/out, th/this)
* Read/write \_\_\_\_ of 7 part word upper signs (ar,ed, er, ow, gh, ble, ing)
* Read/write \_\_\_\_ of 22 dot 5, initial letter signs
* Read/write \_\_\_\_ of 5 dot 4/5, initial letter signs
* Read/write \_\_\_\_ of 6 dot 4/5/6 initial letter signs
* Read/write \_\_\_\_ of 5 dot 4/6 final letter signs
* Read/write \_\_\_\_ of 7 dot 5/6 final letter signs
* Read/write two dot 6 final letter signs
* Read/write \_\_\_\_ of 11 primary punctuation and composition signs
* Read/write \_\_\_\_ of 10 intermediate punctuation and composition signs
* Read/write literary signs for money, fractions, decimals, Roman numerals and weights/measurement
* Locates preliminary pages, special symbols page, transcriber’s notes page in a volume of a Braille text
* Uses table of contents, glossary and index in a Braille text
* Read/write single-spaced/interpoint Braille
* Locates/reads words and definitions in a Braille dictionary
* Use a multi-volume Braille textbook

GOAL: The student will read and write using appropriate Braille rules and formatting, with \_\_\_\_% accuracy.

* Locates beginnings of paragraphs
* Writes paragraphs, indenting two spaces
* Reads/writes lists
* Locates and read transcriber’s notes, picture captions
* Locates headings/subheadings in a text
* Reads/writes columned materials and tables
* Read/write format for poetry and plays
* Write outlines in correct (literary or textbook) Braille format
* Applies rules for Braille contractions, punctuation and composition signs

GOAL: The student will read/write alternate Braille codes, as needed for classroom use, with \_\_\_\_% accuracy.

* Read/write Braille music signs
* Read/write Braille foreign language signs for: \_\_\_\_\_\_\_\_\_
* Read/write Braille computer code signs

GOAL: The student will interpret/display information from globes, maps, atlases, models, graphs, and tactual diagrams, in \_\_\_\_ out of \_\_\_\_ sessions, with \_\_\_\_% accuracy.

* Locates/identifies title, key and symbols
* Identifies the meaning of various textures on a map, globe
* Interpret and display graphical information (bar graphs, charts, stem and leaf plots, circle graphs, line plots, and line graphs), as needed for curriculum use.

GOAL: The student will read/write Braille Nemeth Code for mathematical/science applications, applying appropriate rules for correct format, with \_\_\_\_% accuracy.

* Read/write numerals in Nemeth Code
* Read/write signs of operation (plus, minus, multiplication cross, multiplication dot, division)
* Read/write mathematical equations in a linear/horizontal format
* Read/write mathematical equations in a spatial/vertical format, using lines of separation and correct alignment of numerals/signs
* Appropriately use number sign
* Numbers problems using number sign, Nemeth numeral, punctuation indicator, and period
* Read/write symbols of comparison (< , > , =)
* Read write money using signs: dollar sign, cent sign, decimal point
* Read/write fractions
* Read/write mixed numerals
* Read/write temperatures using sign for degrees
* Read/write percents
* Read/write grouping symbols (parentheses, braces, brackets)
* Read/write Nemeth punctuation (comma, hyphen, colon)
* Read/write modifier signs for lines, arrows, rays, and bars
* Read/write shape indicators (circle, square, triangle, rectangle, parallelogram, etc.)
* Read/write signs/format for parallel and perpendicular
* Read/write signs for angles
* Read/write advanced symbols of comparison (not equals, equivalent, congruent to, ratio, proportion)
* Read/write square roots
* Read and write subscripts/superscripts
* Read/write algebraic expressions using appropriate Nemeth code
* Read/write chemical equations using appropriate Nemeth code
* Read time on a Braille clock/watch
* Write time
* Measure to the nearest centimeter/½ inch using a Braille ruler
* Construct/draw/measure geometric figures (lines, rays, segments, angles) using appropriate mathematical tools (ruler, compass, protractor) and label appropriately
* Use Braille/tactual tools to measure length, weight, capacity and temperature
* Display data on a tactual/Braille graph including the title, axis, increments, labels and statistics (TAILS)
* Interpret/display data in tables, pictographs, bar graphs, stem/leaf plots, frequency table, box/whisker plots, circle graphs, scatterplots, histograms
* Read/write standard/metric measurements
* Read/write advanced Nemeth code symbols (pi, factorial, arc, absolute value, prime, asterisk, integral, set elements, etc)