Tactile Reading 2020

Oslo, April 30



Introduction of the MDVI version of Tactual Profile and a learning path to understand the transition from 3D to 2D





Introduction of presenters









Brenda Zwijnenburg



Anneke Blok



Design of presentation

- Introduction of the MDVI version of Tactual Profile
- Short video fragment of Tactual Profile
- Feel Free MDVI
- Learning path for the transition from 3D to 2D
- Some examples of lessons



Tactual Profile MDVI

Reason for development:

Request for an adjusted instrument of Tactual Profile for people with a severe visual and mental disability, to monitor tactual functioning

Projectgroup started to develop this version in 2014

Project group: Behavioral scientist PhD in special education, occupational therapists, teacher MDVI, rehabilitation therapist in early intervention, speech therapist Expert group: neuro psychologist and other professionals in the field of MDVI and an expert of the Radboud University Nijmegen



Tactual Profile: starting point MDVI version





Target group

Target group Tactual Profile:

Children, 0-16 years of age, who are born blind or who have no more than some residual vision

Target group Tactual Profile MDVI:

Persons with MDVI, a severe visual and cognitive impairment.

Cognitive development from 0-6 years of age



Differences between Tactual Profile and Tactual Profile MDVI

- Extended interview with a parent, teacher or care taker
- Instruction is less verbal
- Steps are more refined in the items
- Observation in daily environment
- Practical Skills not included in item-set



Tactual Profile MDVI





Domains & Categories

Tactual sensory functioning

Tactual motor functioning

Tactual perceptual functioning





Tactual Sensory Functioning

- Noticing
- Body awareness
- Touch sensitivity
- Proprioception







Tactual Motor Functioning

- Tactual exploration
- Two-handedness

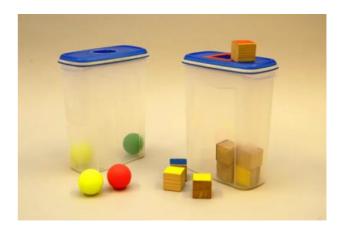






Tactual Perceptual Functioning

- Recognition
- Perception of detail
- Part-whole relationship
- Tactile-spatial relationships
- Figure-ground perception
- Tactual Language
- Touch strategy







Survey with Influential Factors

Client-variables:

- Motor Skills
- Consciousness
- Regulation of sensory stimuli
- Exploration style
- Attention
- Memory
- Executive functions

Stimulus-variables:

- Environmental factors
- Material properties
- Distracting factors





Short filmfragment Tactual Profile MDVI





Feel Free MDVI: materials for 100 activities to stimulate tactual functioning





Categories

Touching and perceiving
Touching and moving
Touching and understanding





Category: Touching and perceiving

Noticing: exploring a tactile apron





Category: Touching and understanding

Perception of details: dogtoys





www.tactualprofile.org



Feel Free MDVI

Feel Free MDVI (Multiple Disabilities and Visual Impaired, Tast Toe MB in Dutch) is a source of inspiration to stimulate the sense of touch in clients with a visual and mental disability. Feel Free MDVI has been written by and for Visio professionals. Parents and caregivers of people with MDVI can also use these activities. On the page-Activities you'll find the approximately 100 activities in PDF-format.

About Feel Free MDVI



Feel Free MDVI describes activities to stimulate the sense of touch. Touch is an important compensatory sense for the visually impaired. People with multiple disabilities and visual impaired (MDVI) often gain less tactile experiences.

Read more about Feel Free MDVI >

Manual



Feel Free MDVI includes materials, ideas and lesson suggestions to stimulate the tactual functioning in practice. Read more about the development level and the layout of Feel Free MDVI.

Learn how to use Feel Free MDVI >

More information:

www.visio/tactile-reading-2021

Activities



Here you'll find all the give or take 100 activities in PDF format. They are divided in the categories "Touching and perceiving", "Touching and moving", and "Touching and understanding". Underneath this there are 12 subcategories.

Go to all activities >

Presentation



Feel Free MDVI includes materials, ideas and lesson suggestions to stimulate tactual functioning in practice. Try to offer the activity in a quiet one-on-one setting. Also read more about the theme, conditions, and factors of influence.

Read more about presentation and conditions >



Learning path Transition 3D-2D

Project group Royal Dutch Visio + Bartiméus

Anneke Blok, Royal Visio
Eric de Quartel, Bartiméus
Esther Rieken, Bartiméus
Wendy Voorn, Royal Visio
Ans Withagen, Royal Visio
Annelies Zonneveld, Royal Visio
Brenda Zwijnenburg, Royal Visio



Aim of the project

To develop an educational guideline to gain blind children insight in the transformation of a three-dimensional object into a two-dimensional tactile drawing.

With this learning path, the relationship between objects and associated drawings, which can be produced by different viewpoints, is explained step by step. The learning path increases in complexity and difficulty level.

Workshops

We checked the added value for a blind person to gain more insight in the transformation of a 3D model into a tactile drawing.

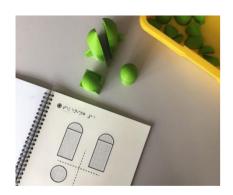






Statements after the workshop

"We learned a lot today! I never knew about the different viewpoints of an object. Really did not know that you depict this in different ways. It's an enriching experience. Learning this also gives me a different view of the world and objects in my environment. If I had learned this younger, I would perhaps have asked different questions and would have gained a richer concept of the world.







Starting points

- > Participation of pupils in regular schools
- ➤ Focus of the learning path: practicing insights in the transition of 3D into 2D. The learning path does **not** focus on concept development
- ➤ The learning path is not a fixed pattern: it should be used in line with the insight and understanding of the pupil

Structure in levels (age is indication)

Preparatory phase: age level 4-7

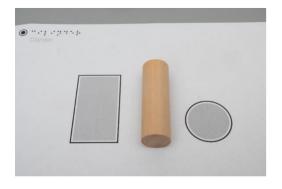
Initial phase: age level 7-10

Continuous phase: age level 11+

Checklist



Insights A to S



Insight F:
something round
can be depicted straight



Insight H:
human, animal or object,
can have more legs from
another point of view

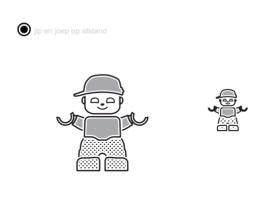


Insight K: 'occlusion'
overlap in a drawing,
something that is partially
depicted is behing the
object that you fully perceive

Insight Q

Knowing that something closer is depicted larger and that is further away is depicted smaller



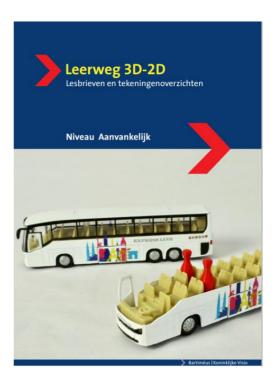


19 Lesson descriptions concerning the insights with special materials and drawings

Objecten en stappen	A	В	c	D	Ε	F	G	н	1	J	K	L	м	N	0	Р	Q	R	s
Voorbereidend																			
Hand	Х																		
Knoop, schelp, kam		Х	х																
Hamer		х	х	х															
Beker			х	х		х	х			х									
Schoen	Х	х	х	Х			Х												
Appel	Х	х								х									
Aanvankelijk																			
Tafel (Transfograph)			х					х											
Willem Wijsneus				Х				х											
Bed en kast								х			х								
Bus				х				х				х		х					
Jip & Joep												х					х		
Hond				х				х											
Olifant				х				х					X						
Paraplu				х					х			х			х				Х
Voortgezet																			
Ui										х									
Molen					Х				х			X	X		х		х		
Brug				х	х							х	х						
Trap				х														х	х
Auto				Х										Х		Х		Х	

Instruction manual and written lessons for each phase





Let's open the box





3 phases: 3 boxes

Prepatory phase:

- Emphasis on : Experiencing the transition (3D- through 2.5D- to 2D)
- Objects are familiar
- Drawings are real life size

Objects:

- Apple
- Cup
- Comb. Shell, button
- Hand
- Shoe
- Hammer

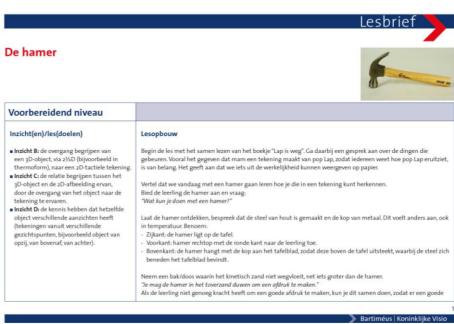


Lesson Hammer

Teachers instructions:

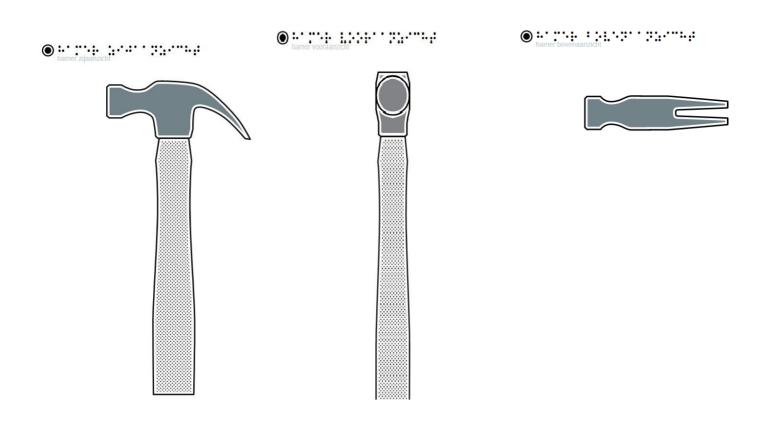
Description of concepts and goals, materials, activities, points of observation and attention.

Lessons contain standard curriculair activities and more chalenging ones.





The Hammer drawings: 3 different points of view





3 phases: 3 boxes

Initial phase:

- Objects are familiar but scale is introduced
- Mascotte Willem is introduced for differents points of view
- More complex concepts are explored

Objects:

- Willem
- Transfograph Bob Marek
- Bed and closet
- Dog and elephant
- Twinbrothers
- Umbrella
- Bus

Visid

Willem Wijsneus Mascot

Literally translated: William Pointy Nose

Figuratively translated: **William Smartass**

The pointing of his nose is used to the concept point of view.



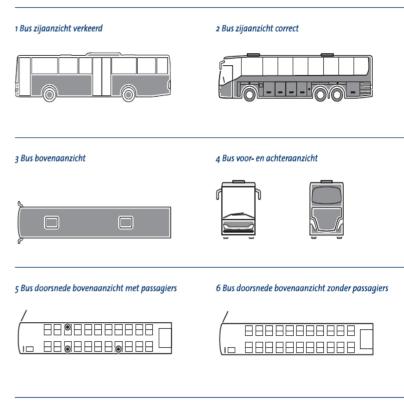


The Bus:

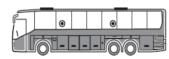
Concepts like:

- A wrong and a right drawing to choose from
- Working with refence points
- Working with a floor plan

Tekeningenoverzicht De bus



7 Bus zijaanzicht passagiers





3 phases: 3 boxes

Continous phase:

- Objects are more complicated
- More complex concepts are elaborated

Objects:

- Onion
- Bridge
- Windmill
- Car
- Staircase



The Windmill

One of the more eloborated and complex lessons.







Special Thanks

Prof. Dr. Boguslaw Marek

Dr. Mathijs Vervloed

More information:

www.visio.org/tactile-reading-2021

