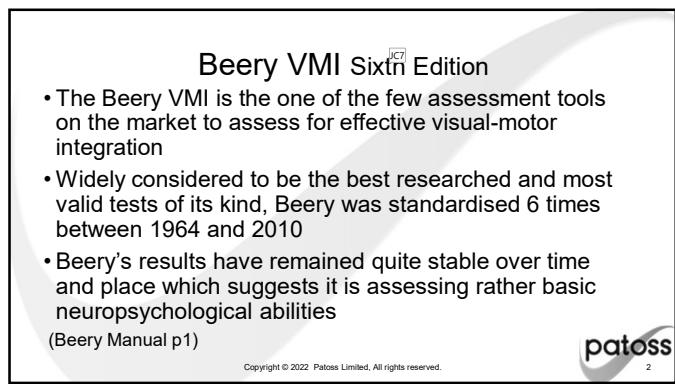
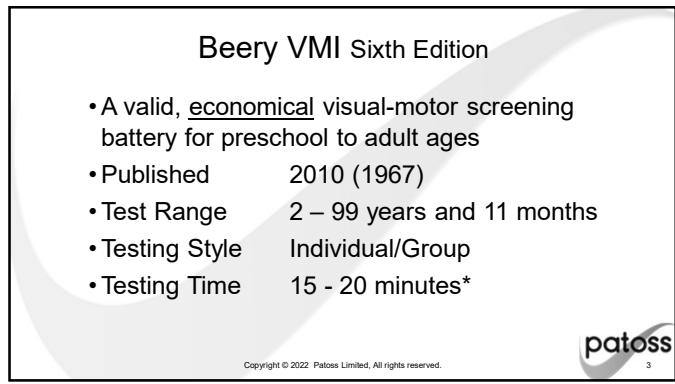


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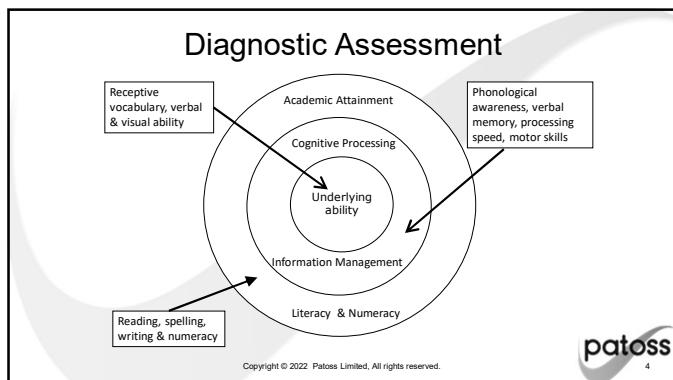
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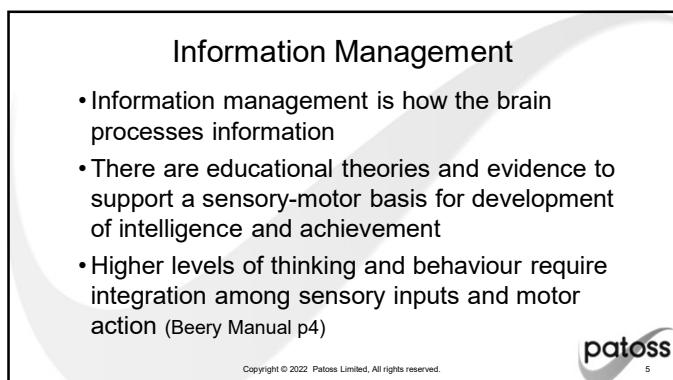


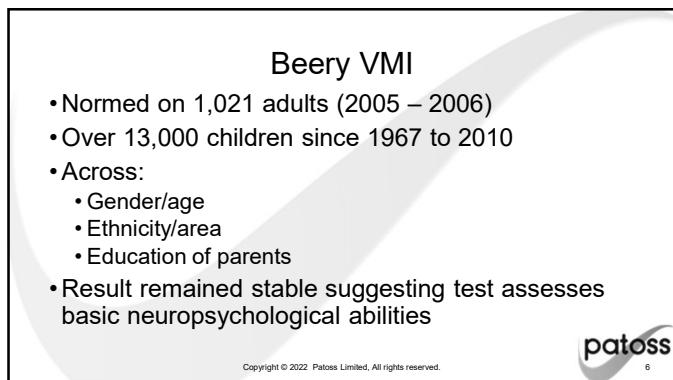
3

JC7 Sixth [consistency]

John Coulson, 13/06/2022







Beery VMI

• Cost (Ann Arbor June 2022)	£208.80 inc VAT
• Test Papers x 25 (Full)	£157.20 inc VAT
• Visual Perception x 25	£ 28.80 inc VAT
• Motor Coordination x 25	£ 28.80 inc VAT
• Cost of forms per individual	£ 8.59 inc VAT

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Reliability

- Internal consistency ranges for 2-17 from 0.71 to 0.89 Table 5 (page 105)
- Internal consistency ranges for adults from 0.83 to 0.94 Table 6 (page 106)
- Standard Errors of Measurement
 - 68% provided in Table 7 (Page 106)
 - To find confidence limits at 95% - just double the SEM

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Beery VMI Design

- Assesses integration of visual and motor abilities
- Identifies significant difficulties with integrating or coordinating visual-perceptual and motor (finger and hand movements) abilities
- Virtually culture free



6

9

Beery VMI

- Many children learn to compensate for visual-motor weaknesses
- But automatic transfer does not usually occur just by tracing circles and rewriting digits (Beery Manual p5)
- Research also has indicated personalities are significantly affected by nonverbal learning disabilities (Beery Manual p9)

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Beery VMI Design

- Group or individual
- Three sections
- Follow the prescribed order if doing all three sections
- Follow standardised instructions
- Not necessary to do all three tests though

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Beery VMI Design

- Beery VMI Full Form – untimed
 - First test (green booklet)
 - For younger children can use short form – goes up to shape 21
 - For the rest start at shape 7 and work through book – goes up to shape 30
 - If individual assessment you may stop testing after three incorrect consecutive items but you also can finish test if the individual is enjoying the task
 - Time 10 – 15 minutes (some adults faster!)

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Beery VMI Design

- Beery VMI Full Form

- Developmental sequence of geometric forms to be imitated or copied with No 2 pencil, soft primary pencil or black ballpoint pen
- Designed to assess extent of integration between visual and motor ability

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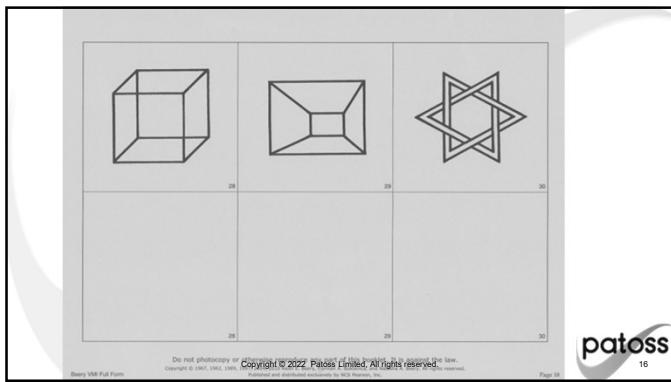
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The Beery-Buktenica Developmental Test of Visual-Motor Integration			Name: _____	Sex: <input type="checkbox"/> F <input checked="" type="checkbox"/> M	
			School: _____	Grade: _____	
			Examiner: _____		
			Test Date: _____	year month day	
			Birth Date: _____	year month day	
			Chronological Age: _____	year month (Count more than 15 days as one month)	
				PROFILE	
				Standard Berry Visual Motor	
				Score VMI Perception Coordination Percentile	
				145 - - - 99.7	
				140 - - - 99.2	
				135 - - - 99	
				130 - - - 98	
				125 - - - 95	
				120 - - - 91	
				115 - - - 84	
				110 - - - 75	
				105 - - - 63	
				100 - - - 50	
				95 - - - 37	
				90 - - - 25	
				85 - - - 16	
				80 - - - 9	
				75 - - - 5	
				70 - - - 2	
				65 - - - 1	
				60 - - - .8	
				55 - - - .3	
See the Beery VMI manual (sixth edition) for norms.					
Beery VMI	Visual Perception	Motor Coordination	Standard Score	Berry VMI	Visual Perception
Raw Scores: _____	_____	_____	145	-	-
Standard Scores: _____	_____	_____	140	-	-
Scaled Scores: _____	_____	_____	135	-	-
Percentiles: _____	_____	_____	130	-	-
Other Scaling: _____	_____	_____	125	-	-
Comments and Recommendations:					
Beginning on page 1, Turn booklet over with bound edge toward the examinee. If rebounds are used, always test in this order: VMI → Visual → Motor.					

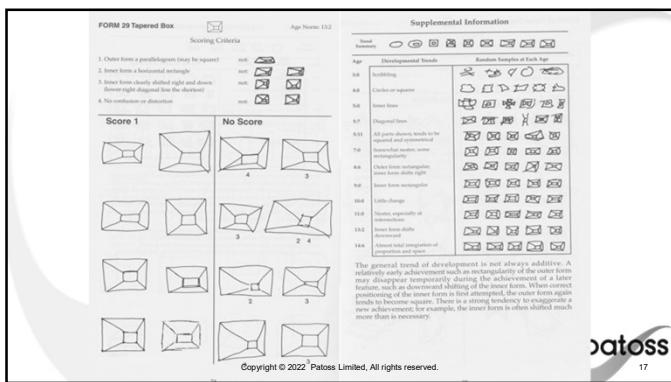
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13	14	15
13	14	15

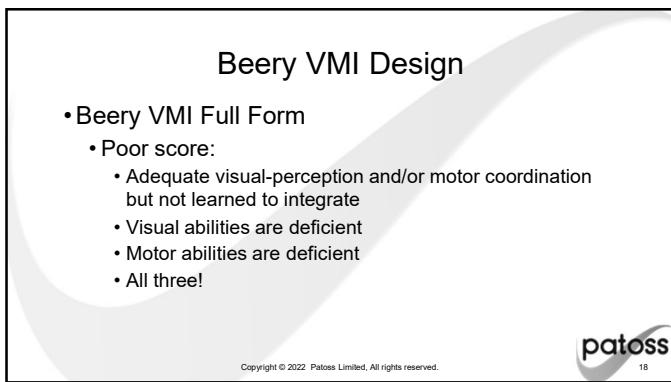
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Beery VMI Design

- Two supplementary tests – both timed
 - Visual Perception
 - Motor Coordination
- Use the same stimulus
- Can give one or both

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Beery VMI Design

- Visual Perception
 - 3 minute task to identify exact match to each given geometric form
 - As test progresses they get smaller and closer together so more demanding in visual acuity and visual perception
 - Smaller size does not matter if student has good near point visual acuity
 - Student marks each answer on sheet

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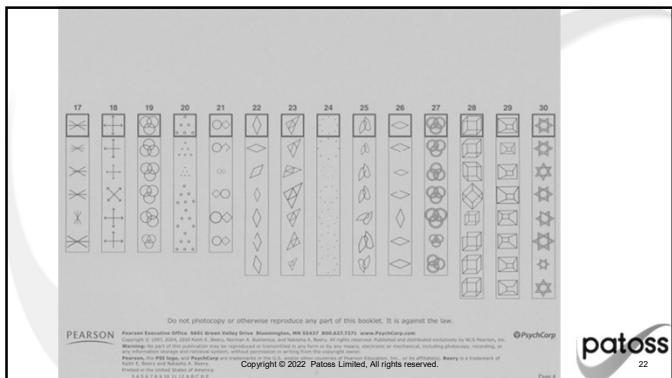
20

The Berry™ VMI Developmental Test of Visual Perception		Name: _____		Sex: <input type="checkbox"/> F <input checked="" type="checkbox"/> M
Visual Perception		First _____	Last _____	Grade: _____
Sixth Edition		Examiner: _____		
by Karen L. Berry, Natasha A. Berry Ages 2 to 100		TURN Test Date: _____ year _____ month _____ day Birth Date: _____ year _____ month _____ day Chronological Age: _____ year _____ month _____ day <small>(Counting from the first birthday to the 12th birthday.)</small>		
Boxes 1-3 are for children; credit for adult if item 4 is answered correctly. Item 1. Points to one body part on self when asked: _____ eye hair ear Item 2. Points to at least 2 of 3 outline pictures: _____ cat dog pig Item 3. Points to 4 of 6 pictures when asked: _____ bear nose ear foot mouth hand tummy eye		Visual Perception Raw Score: _____ <small>(Use the raw score from the Berry VMI test booklet.)</small> See the Berry VMI manual (adult edition) for administration and scoring instructions.		
4	5	6	7	8
		<img alt="Outline of a head with two vertical lines through		

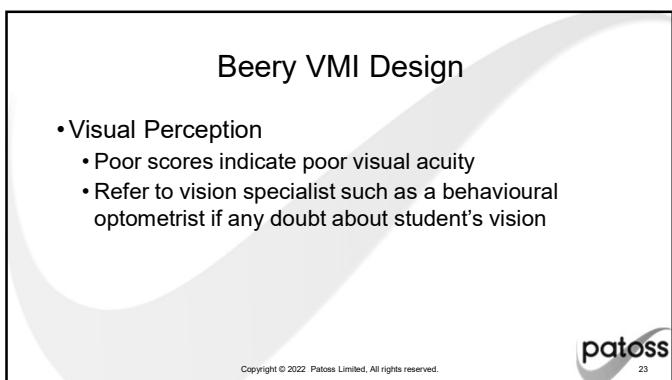
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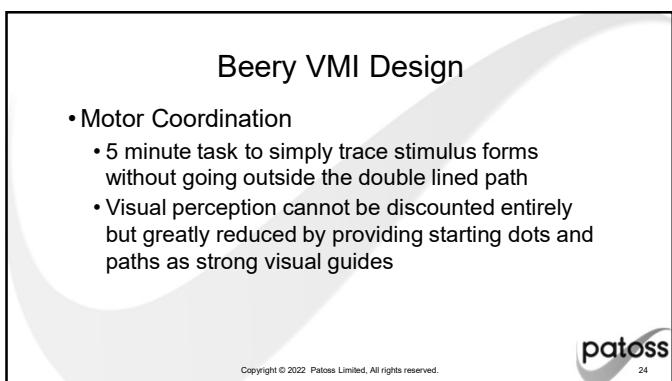
21



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<p>The Berry VMI Developmental Test of Motor Coordination</p> <h1>Motor Coordination</h1>  <p>by Keith E. and Natasha A. Berry Ages 2 to 100</p>		<p>Name: _____ Last: _____ First: _____ Sex: <input type="checkbox"/> F <input type="checkbox"/> M</p> <p>School: _____ Examiner: _____ Grade: _____</p>
<p>TURN</p>		<p>Test Date: <input type="text"/> year <input type="text"/> month <input type="text"/> day</p> <p>Birth Date: <input type="text"/> year <input type="text"/> month <input type="text"/> day</p> <p>Chronological Age: <input type="text"/> year <input type="text"/> month (Count more than 31 days as one month.)</p>
<p>Motor Coordination Raw Score _____ <small>(Allow 10 minutes for the first of the Berry VMI test booklet.)</small></p> <p>See the Berry VMI manual (soft publication) for administration and scoring instructions.</p>		
<p>Let's Draw!</p> <p>Use a No. 2 pencil (or another pencil with soft black lead) or a ballpoint pen with black ink.</p> <p>Remember, you get one try with no erasing.</p> <p>Keep the booklet straight in front of you and don't tilt it. Just do the best you can on both the easy ones and the hard ones.</p> <p>Don't skip any!</p> <p>Please turn the page from the top to begin.</p> <p>Do not photocopy or otherwise reproduce any part of this booklet. It is against the law.</p> <p>Pearson Education, Inc., 500 S. Green Valley Parkway, Suite 100, Las Vegas, NV 89149-1027 • www.PsychoCorp.com</p> <p><small>Warning: Not all parts of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying, recording, or in any other form.</small></p> <p>Patoss, Inc. and PsychoCorp are trademarks of Pearson Education, Inc.</p> <p>Copyright © 2022 Patoss Limited. All rights reserved.</p> <p>Product Number 4240-HC20 Page 1</p>		

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Beery VMI Design

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Beery VMI

- Commonest pattern for dyspraxic students
 - Poor visual-motor integration
 - Excellent to good visual perception
 - Poor motor coordination

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Beery VMI

- Commonest pattern for students with visual difficulties
 - Poor visual-motor integration
 - Poor visual perception
 - Motor coordination – poor or can do well but take a long time or even run out of time

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Beery VMI

- So why use Beery?
- Fairly quick test – easy to administer
- Gives reliable measure of visual-motor integration
- Supplementary tests can tease out if due to visual or motor difficulties or both
- Can use this information to address issues



1

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Information Management

- An individual can have well-developed visual and motor skills but be unable to integrate the two
- Therefore poor visual-motor integration could adversely affect speed and accuracy of reading, writing, spelling and numeracy
- This could have a knock on effect on individual's assessment scores

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Beery VMI Design

- Movement clumsiness, often referred to as Developmental Coordination Disorder (DCD) occurs in 5-15% of children
- The Beery VMI is one of the best instruments available for assessing DCD (Beery Manual p9)
- DCD has been associated with attention disorders as well as academic problems including handwriting, learning difficulties and reading difficulties

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Beery VMI

- "Visual Perceptual and Handwriting Skills in Children with DCD" by Mellissa Prunty, Anna L. Barnett, Kate Wilmot and Mandy Plumb (2016)
- This article concluded that there were no significant correlations between the BVI or TVPS and any of the handwriting measures in the DCD group

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Beery VMI

- BUT the study also concluded:-
- *"In this study we found that the DCD group performed significantly more poorly than the Typical Developing group on the VMI test and TVPS, which supports previous findings Parush, Yochman, Cohen, & Gershon, 1998; Tsai, Wilson, & Wu, 2008; Volman et al., 2006"*

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Beery VMI

- *Prediction 1: Visual perceptual skills are poorer in children with DCD compared to TD children.*
- *VMI There was a significant effect of group on the VMI, as the DCD group were poorer on this measure ($M = 84.19$, $SD = 10.69$) with a significantly lower total standard score than the TD group ($M = 98.37$, $SD = 13.98$), $t(43) = 3.85$, $p < 0.001$, $d = 1.16$. Eleven children with DCD scored below a standard score of 85 compared to three in the TD group.*

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Beery VMI

- This sentence is taken from the conclusion:
- *Although the DCD group scored more poorly than their TD peers on measures of visual perception and visual motor integration, neither of these measures related to their handwriting product or process.*

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Rapid Automatic Naming (RAN)

- Definition taken from a presentation by Dr. Nancy Mather [Mather, N., Assessment of Dyslexia: Constructs and Challenges (2022) Keynote speaker at the Patoss Annual Conference April 2022]
- *RAN is the response time or rapid retrieval for a visual stimulus (digits, letters, colours or objects)*

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Rapid Automatic Naming (RAN)

- *It measures:*
 - *The ability to sustain attention to process and name the symbols*
 - *The ability to name and discriminate among the symbols*
 - *The ability to retrieve verbal labels rapidly*
 - *The ability to articulate words rapidly*



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Rapid Automatic Naming (RAN)

- RAN letters then numbers are the strongest predictors of both reading and spelling
- RAN appears to be distinct from phonological awareness
- RAN is more highly related to speeded measures of reading than reading accuracy

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Rapid Automatic Naming (RAN)

- *If the individual had low Beery scores, it is possible that poor visual-motor skills could be adversely affecting the RAN speed*

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Orthography

- Definition taken from a presentation by Dr. Nancy Mather – as before
- *Orthography: the marks of a writing system, including spelling patterns, punctuation and capitalisation. Dyslexia can be caused by problems in phonology or orthography or both*

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Orthography

- *Orthographic processing is the brain's ability to recall letter orientation, spelling patterns and words with both accuracy and speed*
- *Orthographic knowledge is acquired information stored in memory regarding how spoken language is presented in written language*
- *Orthographic image is the recall of individual letters, word parts and words*

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Orthography

- Orthographic mapping is the process readers use to store written words for immediate, effortless retrieval. It is the means by which readers turn unfamiliar written words into familiar instantaneously accessible sight words.
- Orthographic processing is also a linguistic risk factor. Individuals with dyslexia can have a deficit in orthographic knowledge that is as large as that of phonological awareness and RAN.

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Orthography

- If the individual has poor scores for visual-motor integration and/or motor coordination it is likely to affect their orthography

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Dysgraphia

- *Dysgraphia is a childhood disorder that results in impaired handwriting, impaired spelling, or both in a child of normal intelligence. It is not a mental health disorder, but rather a learning disability marked by difficulty expressing thoughts and ideas in writing. Dysgraphia is frustrating for the child and can cause great emotional difficulty and distress.* Psychology Today Website

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Dysgraphia

- A child with dysgraphia may have trouble learning to spell written words and also have trouble writing at a normal speed, but will not necessarily have problems reading or speaking. Dysgraphia can occur on its own or with dyslexia, which is an impaired ability to read and comprehend written words, or with other selective language impairments that cause problems with learning written and oral language skills.

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Dysgraphia

- Poor scores for visual-motor integration and/or motor coordination could highlight difficulties with dysgraphia

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Beery VMI

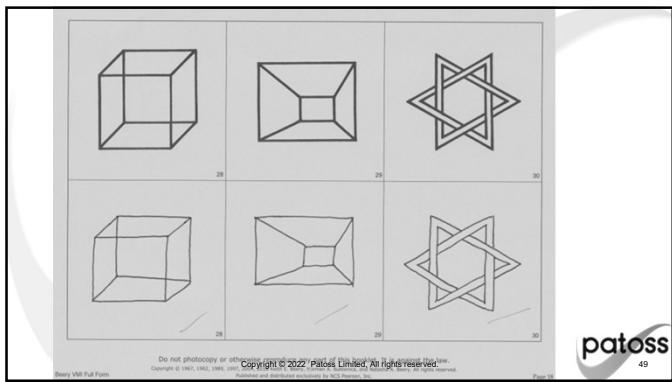
- Some examples of completed forms
 - Comments welcome

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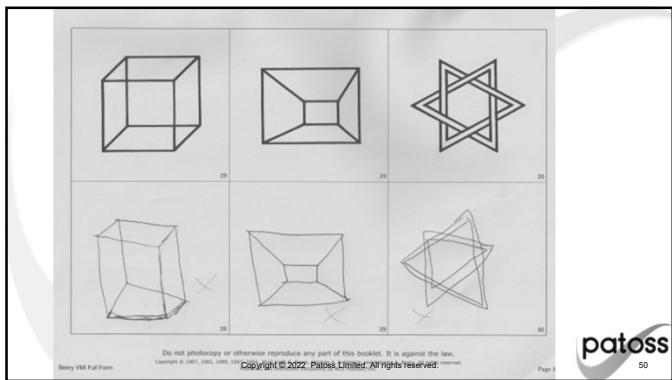


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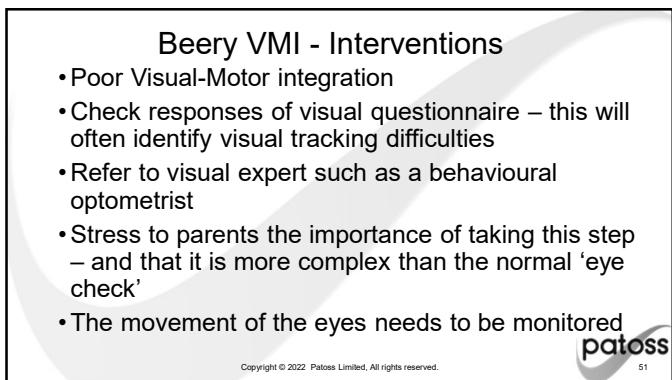
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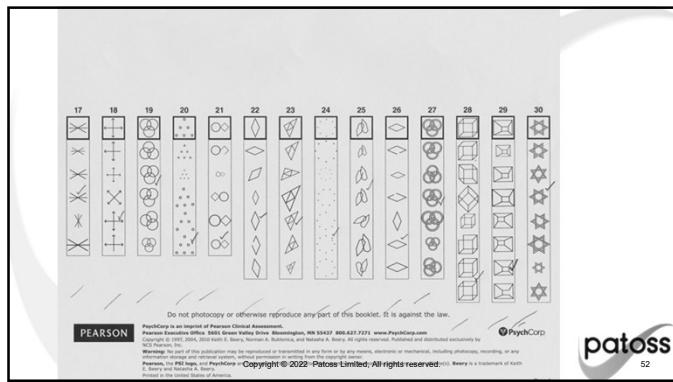
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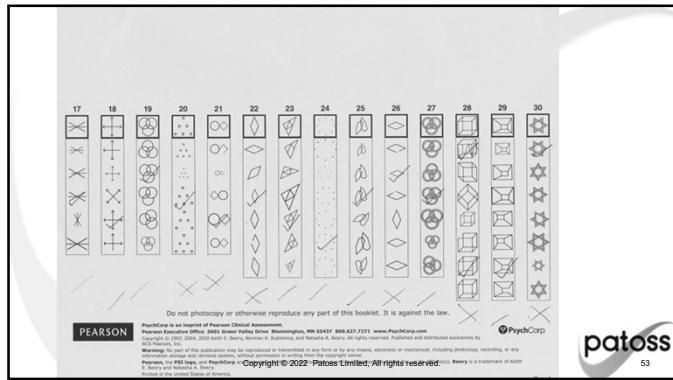
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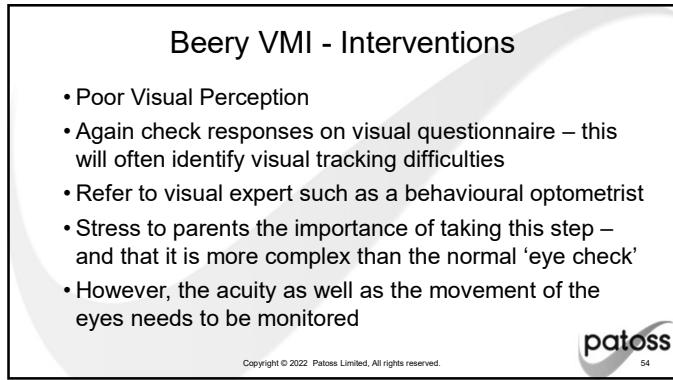
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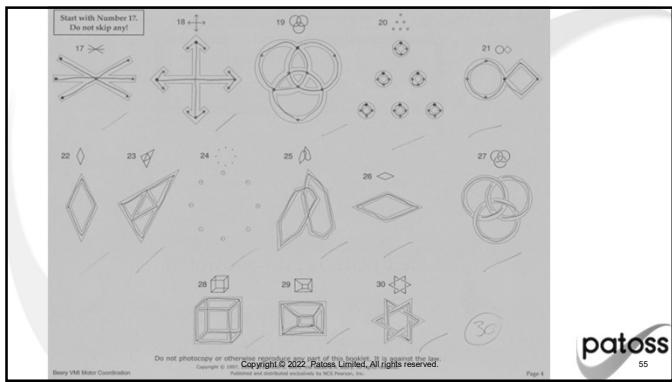
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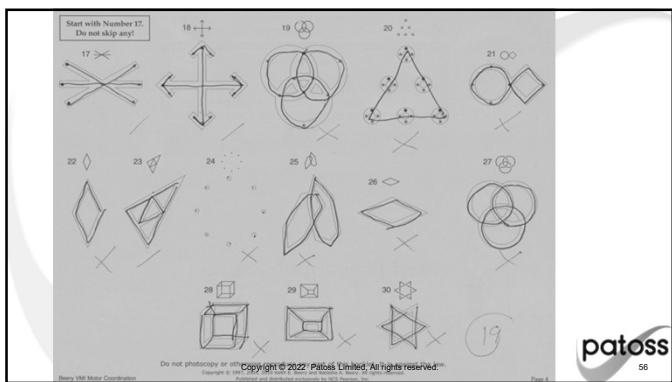
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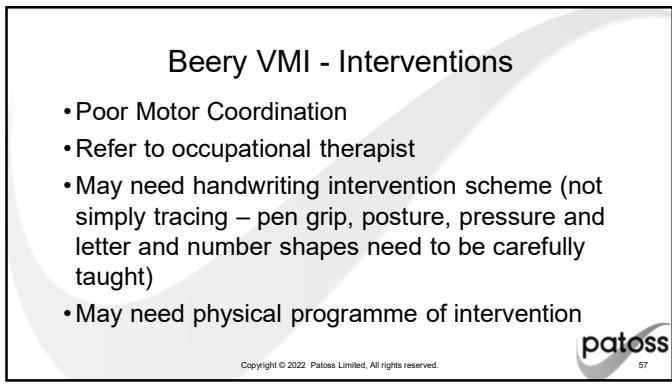
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