# Bedside Cognitive Assessment Schedule

Examinee's Name:		Gender:				
Date of Birth:		Hospital No: Occupation: Date of Testing:				
Education in years: Handedness:						
Examiner's Name:		Date of 1	esting.			
Tests to be chosen keepi	ng in mind the patients e heading may be nee	-		nder a sub-		
Orientation:						
Person		Day				
Place		Month				
Time of day		Year				
Day of week						
				/7		
Digit Span: Read each series of number Forward:	-	one word/second	l. 			
Ask the examinee to repea	t the series in ORDER.					
Example series	Series given to p on mistake to co	•	Response			
5-1						
4-9-3						
3-8-1-4						
6-2-9-7-2						
7-1-5-2-8-6						
4-7-3-9-1-2-8						

Score (N = 6 + / - 1): \_\_\_\_

#### Backward:

Ask the examinee to repeat the s	eries in the REVERSE ORDER.	
Example series	Series given to pt (repeat a level on mistake to confirm ceiling)	Response
3-8		
5-2-6		
1-7-9-5		
4-8-5-2-7		
8-3-1-9-6-4		
8-1-2-9-3-6-5		
		Score (N = 2 less than F):

#### Serial Subtraction:

"I would like you to subtract the number seven from one hundred, then seven from that number and so on until I ask you to stop." (May repeat instructions to clarify the task and offer initial prompts such as "In your head, subtract seven from one hundred." When answers 93, say "Now subtract seven from 93 and keep going.") If able to get 93, allow patient to continue task without prompt or comment, except such general encouragement as "keep going" or "just do your best". If the patient is unable to complete serial sevens to 65, then serial threes from thirty are next attempted. If the patient is unable to perform serial threes, then simple counting backwards from twenty by ones is next attempted.

Score: Number of correct serial subtractions; record actual responses.

Response	100-7	30-3 (optional)	20-1 (optional)
1 – 93			
2 - 86			
3 – 79			
4 – 72			
5 – 65			
Score	/5	/5	/5

Word in reverse (optional to SS, if having poor calculation abilities due to low education)

"I would like you to spell "World" or "Ka r m sa d"( ) (if Gujarati speaking) now, like the whole world." If able to spell forward, say: "Now can you spell it backwards?" score one point for each letter given in correct order. For example, "D-R-L-O-W" / "D M SA R KA" would be worth three points. Record the attempt.

	English						Gujarati	
Correct	D	L	R	О	W			
Pt resp.								
Score	/5							

#### Months backwards:

"I'd like you now to list the months of the year backwards, starting with the last month." (May repeat instructions to clarify the task and offer initial prompts such as "Begin with December..." "What month comes before December? Now keep going backwards through the year.")

Corr.	Dec	Nov	Oct	Sept	Aug	Jul	Jun	May	Apr	Mar	Feb	Jan	Score
Resp.													

Scoring: 2 = no errors,  $1 = \le 2 \text{ errors}$ , 0 = > 2 errors.

Score: \_\_\_\_/2

Days of the week backwards (If does not know the months, due to low education effect):

"I'd like you now to list the days of the week backwards, starting with the Sunday" (May repeat instructions to clarify the task and offer initial prompts such as "Begin with Sunday..." "What month comes before Sunday? Now keep going backwards through the week.")

Corr.	Sun	Sat	Fri	Thu	Wed	Tue	Mon
Resp.							

Scoring:  $2 = \text{no errors}, 1 = \le 2 \text{ errors}, 0 = > 2 \text{ errors}.$ 

\_\_\_\_

#### Perseveration

Copying of changing patterns:

Point to the end of the alternate sequence.

"Starting here continue with the same design until you reach the end of the page."



Score: \_\_\_\_/2

Point to the end of the 3 multiple loops and say to the patient.

"Draw the same design starting here to the end of the page."

333

Score: / 2

Scoring: 2 = completely correct sequence, 1 = one omission or error, 0 = more than one error or omission

Repeat number lett B2, C3, D4"	er combination: '	'Can you please c	ount the let	ters of the al	lphabet for me like A1,
Response: Scoring: demonstra	ted / did not demo	onstrate perseverati	on errors _	/ 1	
Tapping a letter [V letter A, indicate by			a long serie	es of letters.	Whenever you hear the
FBACMNAA.	J K L B A F A K D	O E A A A J A M O	FAAB	Number of correct resp	
		Number of taps	extra		
Gujarati:					
An error = a tap on Score (No points if	-	_	r a failure to	tap on letter	·A
Memory – Immed  3 Word List: "I am g CONCOG)					t after me." (from
Tick the 3 words chosen	Black	House	Mar	go	Ship
Or note here the 3 words given to the patient					
1 <sup>st</sup> Trial					
2 <sup>nd</sup>					
3 <sup>rd</sup>					
4 <sup>th</sup>					
5 <sup>th</sup>					
Score:/3				-	
'king' you are sup	posed to say 'quo st' you are suppos	een', whenever I seed to say 'west'."	say 'hand'	you are supp	refully, whenever I say posed to say 'foot' and er till patient has learnt.
East					
Score: /1					

*Name and Address:* (from ACE-R)

"I'm going to read out a name and address and I'd like you to repeat it after me. We will do these 3 times so you'll have a chance to learn it. I'll ask you about it later." Record examinees responses verbatim in the table below.

	1 <sup>st</sup> Trial	2 <sup>nd</sup> Trial	3 <sup>rd</sup> Trail	
Laxman Singh				
59 Mahadev Society				
Maninagar				
Ahmedabad				
Score only the third trial. Score 1 for each correct word/number.  SCORE:/7				

Figure drawing for visual memory: "I'm now going to show you a simple drawing. I want you to look at the drawing carefully so that you can draw what you have seen from memory. Do not start drawing till I tell you to. You will copy a total of 4 drawings." Hold each design for 5 seconds. After withdrawing the design wait for 5 seconds, then ask the patient to draw the figure. (from Strub and Black)

Figure 1	Figure 2
Score / 3	Score / 3

Figure 2	Figure 4
Score / 3	Score / 3

Alternate to the figure drawing test for non-verbal memory: Hide three easily recognizable objects in the patient's vicinity while the patient is observing. Confirm from patient "Where is object X? Where is object Y? Where is object Z?" Memory – Recent (after 5 minutes) (Both verbal and visual memory should be tested) Delayed 3-word recall: "Could you please recall the 3 words that I had asked you to remember" Tick the 3 words Black House Mango Ship chosen Or note here the 3 words given to the patient Spontaneous recall Categorical cue Red / Black / Blue School / Hospital / Apple / Mango / Bus / Train / Ship House Banana Phonemic cue Score: \_\_\_/3 (from CONCOG) Delayed brief paired associate recall: "I'm going to tell the first word of the combinations that we learnt earlier.. listen carefully and tell me the associated word" King-Queen Hand-Foot East-West Score: \_\_\_/1 *Delayed recall of name and address:* (from ACE-R) "Can you please recall the name and address that you had learnt earlier" Record examinees responses verbatim in the table below. Laxman Singh 59 Mahadev Society Maninagar Ahmedabad Score 1 for each correct word/number. SCORE: \_\_\_/7 The following test should be done if the subject failed to recall one or more items. "Ok, I will give you some hints.. was the name X, Y, Z etc?" Laxman Sharma Ramesh Patel Recalled Laxman Singh 25 59 37 Recalled Shital Society Manisha Society Mahadev Society Recalled

Prakashnagar

Rajkot

Recalled

Recalled

Score

Maninagar

Surat

Patelnagar

Ahmedabad

/5

Figure drawing on recall for visual menthat you had drawn earlier" (from Strub	mory: "Could you please try to draw the 4 figures from memory and Black)
Figure 1	Figure 2
Figure 2	Figure 4
Alternate to the figure drawing test for we hid objects people and name the objector:/3  General impression of ability for delayer	
Memory – Remote	
Recall of historical information (Seman Color of an elephant	ntic memory)
Name of current Prime Minister  Number of days in a week	
Tell me if the following people are dead	d or alive

Jawaharlal Nehru		
Sridevi		
Score	/6	
Recall of personal verifiable informat	tion:	
Where were you born?		
Date of birth?		
What school did you go to?		
Date of marriage? / Date of passing examinations? / Name of teacher this year and last year in case of child?		
Last festival celebrated? / Last vacation?		
Score	/5	
Language  Writing: "Write down in one sentence down a short sentence describing you		
Writing: "Write down in one sentence down a short sentence describing you  Agraphia if basic language errors in educations deficits.	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following agraphia in the sentence describing you have a sentence described by the sentence described have a sentence d	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you  Agraphia if basic language errors in	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level  Monosyllabic	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level Monosyllabic Pen	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level Monosyllabic  Pen Watch	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level Monosyllabic  Pen Watch Tree	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level Monosyllabic  Pen Watch Tree  Multi syllabic	r village / tov	wn / family / wo
Writing: "Write down in one sentence down a short sentence describing you Agraphia if basic language errors in educations deficits.  Repetition: "Please repeat the following difficult level Monosyllabic Pen Watch Tree Multi syllabic Hospital	r village / tov	wn / family / wo

Score: P/F

"Let's go out and fly kites"

"No if and or buts"

Fluency: observed during conversation. Alternatively, the patient can be asked to describe the "cookie theft picture" or any other picture. Normal fluency is 50-115 words per minute. A fluent speech flow rapidly and effortlessly. When more than 200 wpm it is considered logorrhea. When less than 50 it is considered non-fluent. Non-fluent speech is sparse, laborious, agrammatic, filled with pauses for word finding, consists predominantly of nouns [telegraph style]. Fluent speech may also be unintelligible [jargon aphasia], or full of abnormal words [paraphasia] or neologisms [self-invented words or phrases]. Schizophrenic neologism has symbolic value, whereas paraphasia neologism is non-symbolic.

Impression: Fluent / Non-fluent

Comprehension:

One step	Point to the fan?	P/F
Yes/No [only if the patient fails on the	"Just answer yes or no to these questions"	P/F
above step; to	Does Tuesday come before Monday?	
differentiate from dyspraxia]	Is the sky blue? Can dogs fly?	
Two step	Point to the fan and then to the switch?	P/F
Three step*	Take this piece of paper with your right hand, tear it into two and place it back on the desk with your left hand	P/F
Semantic*	Point to the source of illumination in the room?	P/F
Complex syntactic sentence	A tiger was eaten by a lion. Which animal is alive?	P/F
For identifying minor comprehension deficits, the "Marie's paper test" may be administered	"Here are three papers, a big one, a medium size one and a small one. Take the big piece, crumple it up and throw it on the ground. Give me the middle sized one. Put the smallest one in your pocket."	P/F

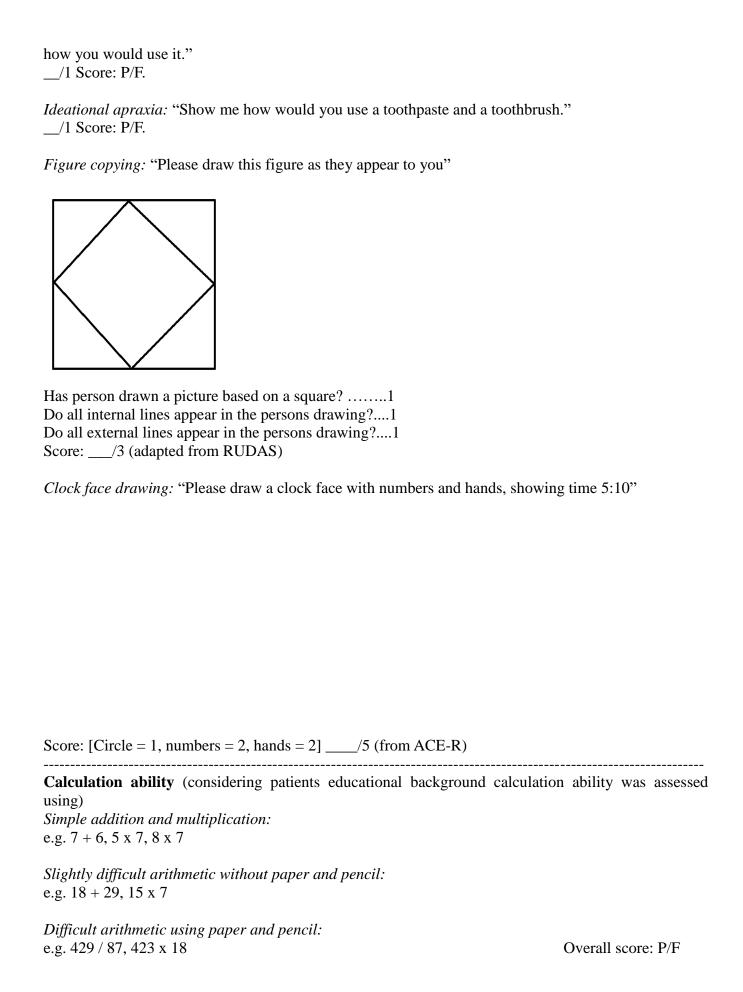
<sup>\* -</sup> Routinely these 2 can be done and skip to next section of no mistake.

Impression: Comprehension intact / impaired

Naming:

High frequency	Low frequency	Response	Correct	
	Low frequency	Response	Correct	
Watch				
	Band			
Shirt				
	Collar			
Forehead				
Cheek				
Lip				
	Chin			
Shoulder				
	Elbow			
	Wrist			
	Knuckles			
			High freq:/6	Low freq:/6

Alternatively, ACE-R / ACE-III Naming figures can be used to test.
Reading:  a. Read aloud from a new paper or magazine  b. Read "close your eyes" written from a piece of paper and perform
Agnosia
Write letter on hand: [Graphesthesia] "Ask patient to put hands on the table palms up. "I'm going to trace some letters on the palm of your hand with the cap of this pen." Demonstrate with eyes open. "Now, with your eyes closed, I want you to tell me what letter I'm tracing."  Score: P/F.  Left hand:/1 "L"/1 "O"  Right hand:/1 "J"/1 "T"
Identifying objects with closed eyes: [Stereognosis] "I'm going to put some objects in your hands. With your eyes closed, can you tell me what each of them is?"
Score P/F. Left hand:/1 Key/1 Coin Right hand:/1 Coin/1 Key
Finger identification: Point to a finger on patients' left hand and ask "What is this finger called?" Score P/F. Point to a finger on patients' right hand and ask "What is this finger called?" Score P/F
Right-left orientation:/1 Score: P/F. "Show me your left foot."/1 Score: P/F "Show me your right hand."/1 Score: P/F "Show me your left knee."/1 Score: P/F "Show me your right ear."
Apraxia
Buccolingual Praxis: "Can you show me how to blow out a match stick."/1 Score: P/F.
<i>Limb Praxis:</i> "Please pretend that you have a hammer in your hand show me how you would use it."/1 Score: P/F.
Body Praxis: "Please pretend that you are playing cricket and you have a bat in your hands show me



Frontal lobe function				
Similarities: "In what way are they alike?" (from FAB) A banana and an orange A table and a chair A tulip, a rose and a daisy				
	y responses [fruits, fuzo correct: 2; One correct			
-	<i>Proverb interpretation:</i> Elicit for the patient a familiar proverb. Then ask the patient "What people mean when they say that?". Record response and judge concreteness of response.			
Score: Concrete / Al	bstract			
Set generation: [Letter] "I'm give you a letter of the alphabet and I would like you to generate as many words as you can beginning with the letter, but not names of people or places. You have one minute and the letter is S".				
Score:/1 [N >=11] (from MoCA)				
Set generation: [Vegetables] "Now can you name as many vegetables as possible in one minute".				
Score:/1 [N>=12] (from DART)				

		name as many animal in a minute. [from RU	-	ninute". Stop if the
	Look carefully at wha	_		
"fist-edge-palm." "Now, with your rig The examiner perfo "Now, do it on your Score (from FAB) Patient performs six Patient performs at Patient fails alone, b	ght hand do the same some three times the series three times own."  I correct consecutive some three correct c	series, first with me, to mes with the patient, series alone: 3 assecutive series alone rrect consecutive series ecutive series even we	hen alone." then says to him/her:  2 es with the examiner:	
Go-No Go (inhibite "Tap once when I ta To ensure that the p	ip once."	the instruction, a seri	es of 3 trials is run: 1	-1-1.
"Do not tap when I To ensure that the p	-	the instruction, a seri	es of 3 trials is run: 2	-2-2.
The examiner then	performs the followin	g series: 1-1-2-1-2-2-	2-1-1-2.	
Score No errors: 3; times: 0 (from FAB		ors: 1; Patient taps lik	e the examiner at leas	st four consecutive
Frontal release refle Gabellar tap Forced grasp Palmomental Sucking Snout	exes: (tick positive on	es)		
Visual agnosia (tes	t only if pt is alert, ne	ar normal intelligence	e and no memory and	language disorder)

Matching test: [Apperceptive agnosia] "Match the figure in column A with that in Column B" Score: P/F

Incomplete letter test: [Perceptual categorization defect] "Please identify the following letters / things Score:/4
Matching dissimilar objects: [Associative agnosia] "Please match item in the top row with similar item in the bottom row"  Score:/3
Face identification: [Prosopagnosia] "Can you please identify these people for me?" Score:/3
Color naming and pointing: [Central color vision abnormalities]  For first row ask the patient to name the color. Score/4  For the second row ask the patient to point to blue, green, red, yellow. Score:/4
Global letter: [Dorsal simultagnosia] "Please identify the letter in this picture"  Score:/1
Mixed figure test: [Ventral simultagnosia] "What objects do you see in this picture?"  Score:/8
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## **Final Scoring**

This is a clinical impression based on bedside testing, which has not been validated or normed.

Area	Clinical impression	Remarks
Orientation	Normal / Equivocal / Abnormal	
Attention	Normal / Equivocal / Abnormal	
Perseveration	Normal / Equivocal / Abnormal	
Memory-immediate-verbal	Normal / Equivocal / Abnormal	
Memory-immediate-visual	Normal / Equivocal / Abnormal	
Memory-recent-verbal	Normal / Equivocal / Abnormal	
Memory-recent-visual	Normal / Equivocal / Abnormal	
Memory-remote	Normal / Equivocal / Abnormal	
Language	Normal / Equivocal / Abnormal	
Apraxia	Normal / Equivocal / Abnormal	
Agnosia	Normal / Equivocal / Abnormal	
Calculation	Normal / Equivocal / Abnormal	
Frontal lobe function	Normal / Equivocal / Abnormal	
Occipital lobe function	Normal / Equivocal / Abnormal	

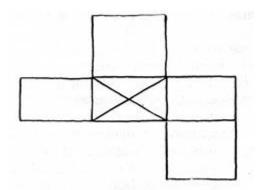
Figure 1



Scoring Figure 1



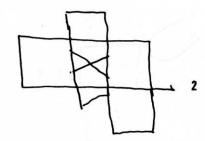
Figure 2



Scoring figure 2







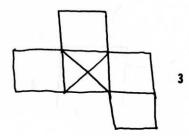
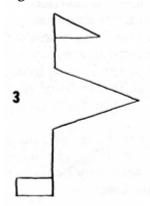
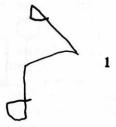


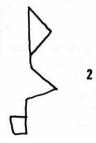
Figure 3



Scoring figure 3







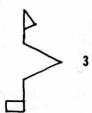
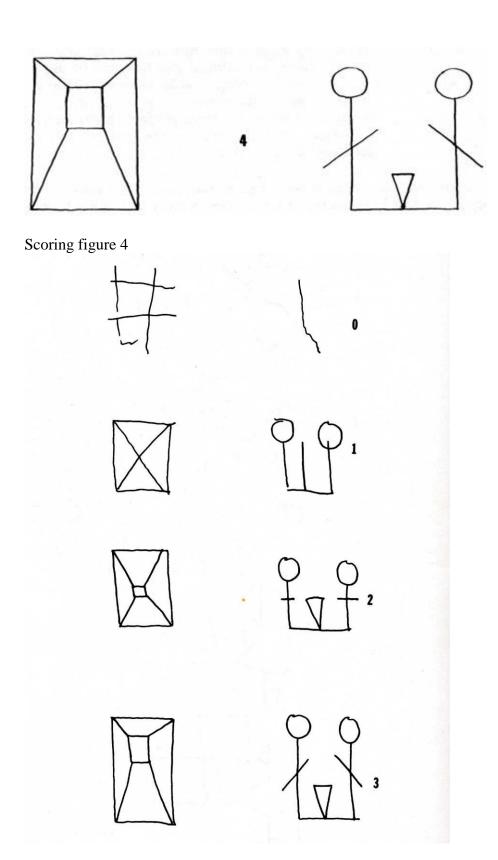
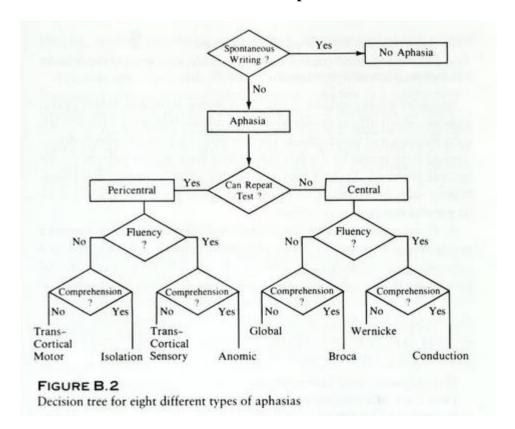


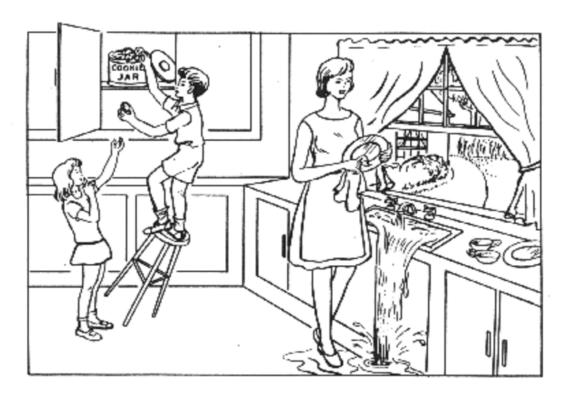
Figure 4



## **Decision tree for Aphasias**

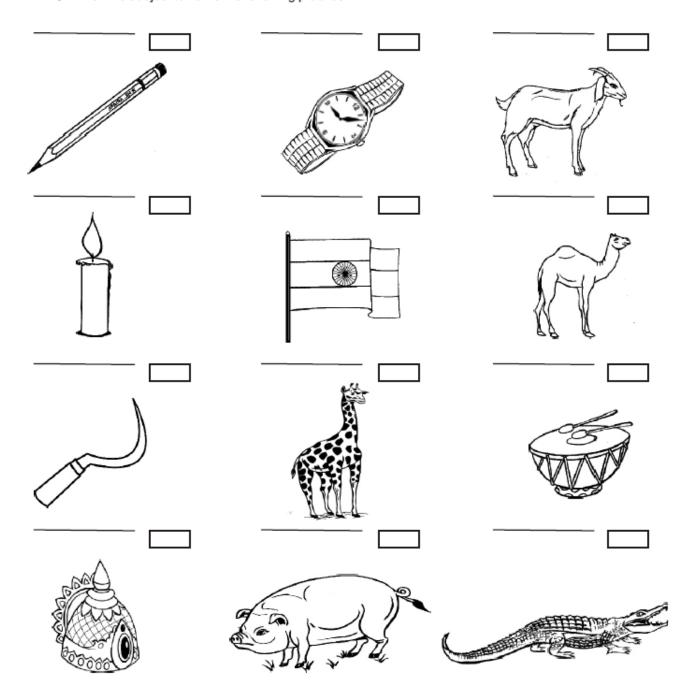


## **Cookie Theft picture**



# **ACE-R Naming stimulus**

Ask the subject to name the following pictures:



## **Clock drawing scoring**

Ask the participant to draw a clock face with the numbers on it. When he/she has finished, ask them to put the hands at 5:10.

Circle: 1 point maximum if it is a reasonable circle

Numbers: 2 points if all included and well distributed

1 point if all included but poorly distributed

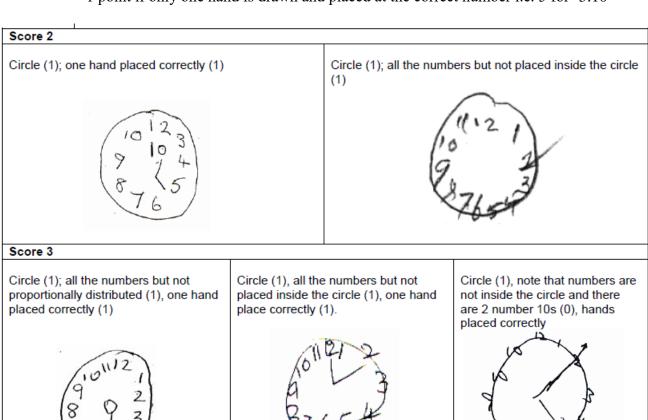
Hands: 2 points if both hands are well drawn, different lengths and placed on correct numbers

(you might ask which one is the small and big one)

1 point if both placed on the correct numbers but wrong lengths OR

1 point if one hand is placed on the correct number and drawn with correct length OR

1 point if only one hand is drawn and placed at the correct number i.e. 5 for '5:10'



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## Score 4

Circle(1); numbers proportionally distributed (2); one hand placed correctly (1)



Circle (1); all the numbers but not proportionally distributed (1); both hands placed correctely (2)

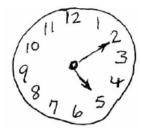


Circle (1); numbers proportionally distributed (2), one hand placed correctly (1)



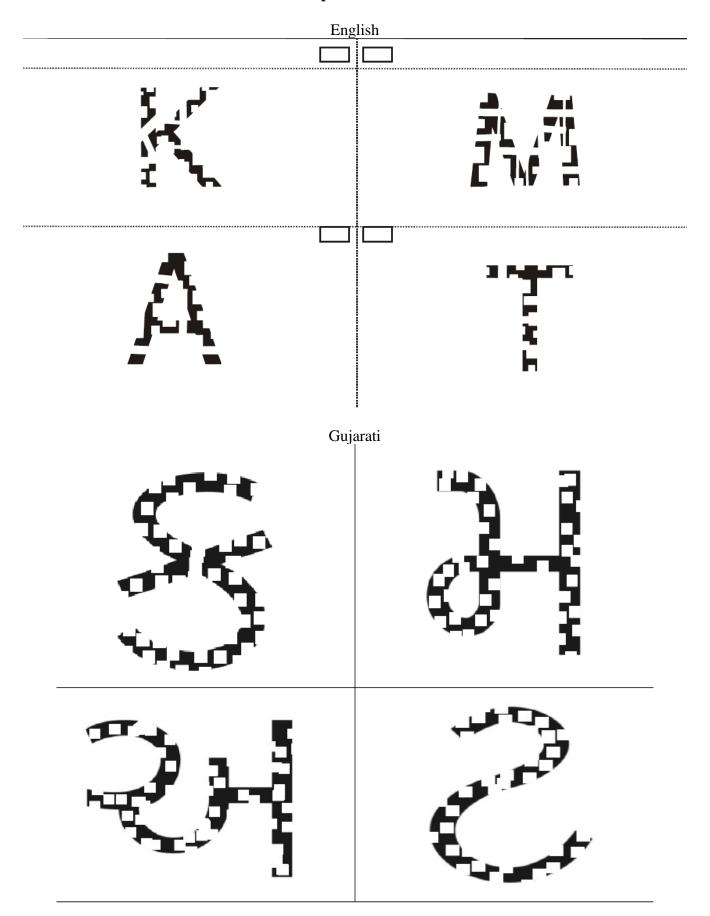
## Score 5

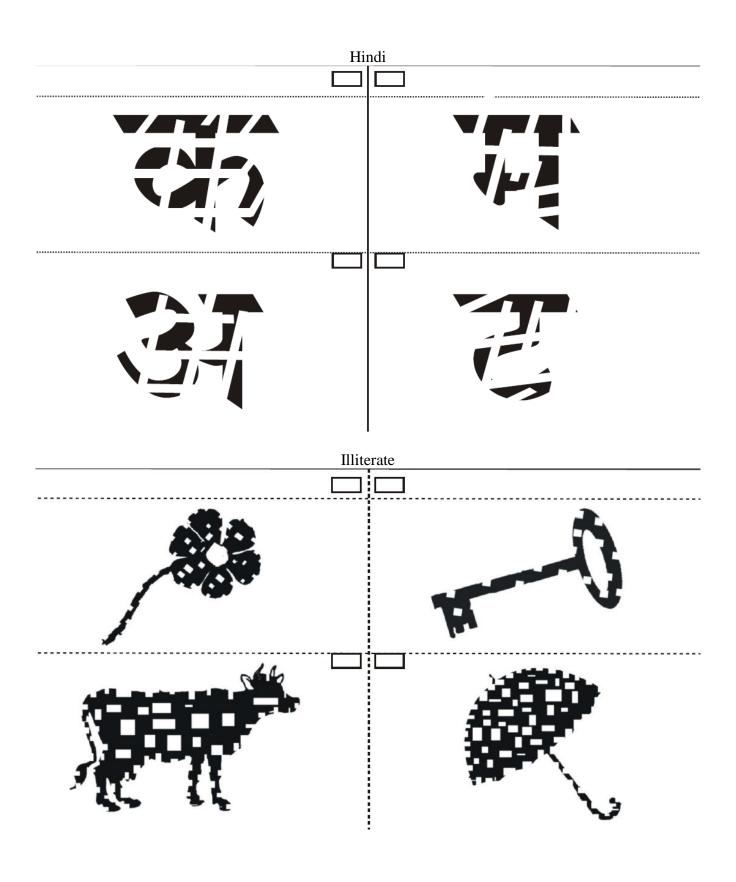
Circle (1); numbers proportionally distributed on both halves of the clock face (2); hands placed correctly (2)



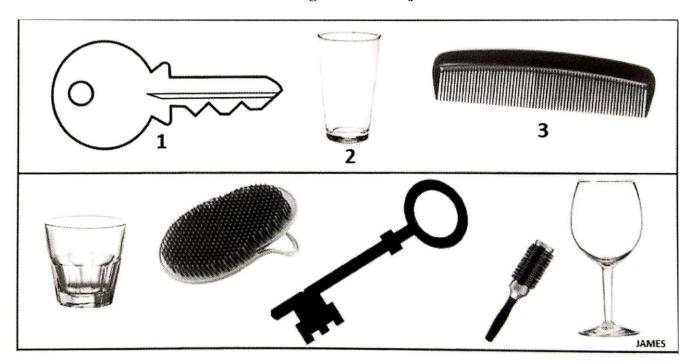
# Apperceptive agnosia patients cannot match item in column A with items in column B B

# **Incomplete Letter Test**

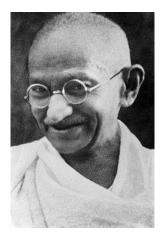


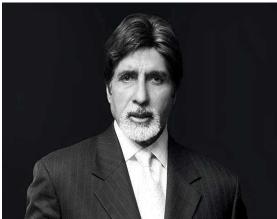


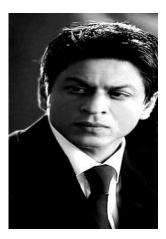
# Matching dissimilar objects



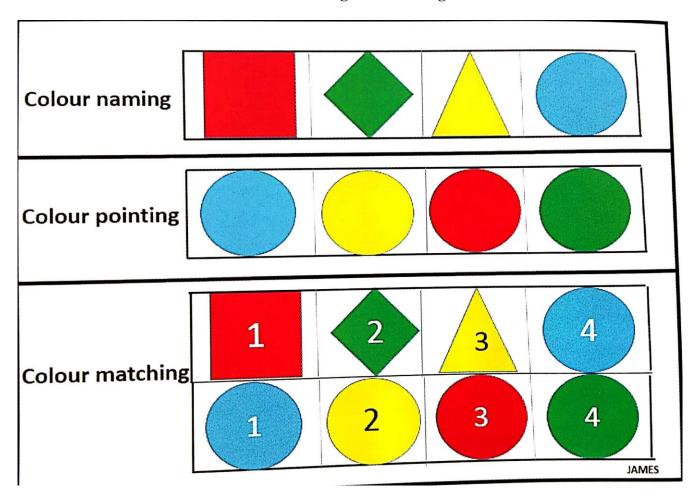
**Face identification** 



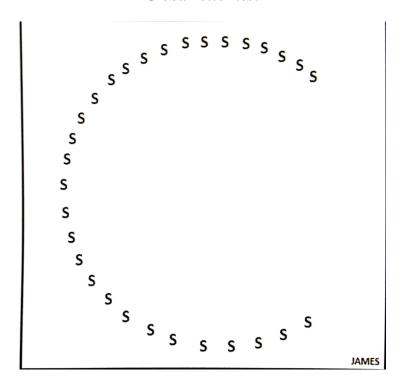




## **Color naming and matching**



## **Global letter test**



# Mixed figure test

