

Visual Fixation: • Definition: Ability to locate and maintain visual focus on a target for 3-5 seconds in all visual fields and at all distances • Tools: Pen/Peg • Procedure: Place target midline (~16" and ~30") in 8 planes of gaze (X, H) cue to hold 3-5 seconds • Interpretation: Record as "Impaired" or "Intact." If "Impaired," note in which quadrants.	Visual Acuity: • Definition: Clearness of vision at a particular distance • Tools: Snellen or Lea Symbols Near and Far Acuity Charts, eye patch • Procedure: Place near/far charts midline to patient (~16"-near, ~10'-far), testing binocularly and monocularly. • Interpretation: Record as smallest line read minus the number of letters missed (i.e. 20/40-2). If 3+ errors, record score of line prior.
Oculomotor - Pursuits: • Definition: Eyes smoothly following objects in space in all directions while head held steady • Tools: Pen/Peg, eye patch • Procedure: Place target ~16"-18" from patient's eyes and move target in 8 planes of gaze (X, H, O both clockwise and counterclockwise), testing binocularly and monocularly. • Interpretation: Record as "Impaired" or "Intact." If "Impaired," note deficits in visual attention, abnormal jerky movements, head movements, nystagmus, over/under shooting to specific visual fields, or difficulty crossing midline.	Oculomotor - Saccades: • Definition: Sequenced rapid eye movements that change line of sight • Tools: 2 differently colored Pens/Pegs, eye patch • Procedure: Place targets ~16"-20" from patient's eyes and ~10" apart from one another, asking patient to look at specific target upon command 3x for each visual field, testing binocularly and monocularly. • Interpretation: Record as "Impaired" or "Intact." If "Impaired," note deficits in inability to await verbal command, head movements, or over/under shooting to specific visual fields.
Eye Alignment – Corneal Reflex: • Definition: Symmetrical alignment of eyes at midline • Tools: Pen light • Procedure: Hold pen light ~16" from bridge of nose and observe symmetry of reflection in both pupils • Interpretation: Record as "Intact" or if not intact whether observed "Esophoria" (inward misalignment) or "Exophoria" (outward misalignment)	Eye Alignment – Maddox Rod: • Definition: Symmetrical alignment of eyes at midline • Tools: Pen light, Maddox Rod (Red paddle), Near Phoria Card • Procedure: Hold rod so lines on rod horizontal on patient's eye and place pen light into slot behind card positioned ~16" from bridge of nose asking patient to indicate number in which they see a vertical red line passing through. Complete against with rod vertically and patient indicating horizontal red line. • Interpretation: Record "Intact" or "Impaired" (Impaired = 2+ diopters from midline)

Vision Testing Cheat Sheet

Convergence: • Definition: Ability to maintain focus as an objects moves closer to the body • Tools: Pen/Peg • Procedure: Hold target ~20" from bridge of nose and slowly move target towards patient asking when target becomes blurry, then slowly move target away from patient asking when patient sees double or eyes deviate as well as when target becomes single again • Interpretation: Record in inches "break point" (double or deviation), "blur point" (target becomes blurry), and "recovery point" (target single again). Intact = 4" to nose	Visual Fields: • Definition: Ability to focus centrally and continue to see peripherally • Tools: Eye patch • Procedure: Sit directly in front of patient, eyes level, knees touching. Extend arms with index finger pointing upwards in 8 planes of gaze and move towards eyes while instructing patient to identify when fingers seen while looking at testers nose at all times, testing binocularly and monocularly. • Interpretation: Record as "Impaired" or "Intact." If "Impaired," note in which quadrants.
Stereopsis: • Definition: Perception of depth and 3-dimensional structure • Tools: Red/Green Glasses and Stereopsis Card • Procedure: Place red/green glasses on patient's eyes. Hold card midline ~16" from patient asking to state number and types of objects seen. • Interpretation: Record as "Impaired" or "Intact." If "Impaired," note which eye visual stimuli is extinguished from (eye of opposite colored objects noted by patient = extinguished eye) or if any inconsistent omission of objects, cues required.	Pencil/Paper Star Cancellation: • Purpose: Determine intact visual fields and visual attention • Tools: Pen, Star cancellation sheet • Procedure: Place star cancellation sheet midline and anteriorly to patient seated at table. Provide pen and ask patient to cross out all SMALL stars. • Interpretation: Score number of omissions and error on both right and left sides as well as time required for task completion.
Pencil/Paper Line Bisection: • Purpose: Determine intact visual fields and visual attention • Tools: Pen, Line Bisection sheet • Procedure: Place line bisection sheet midline and anteriorly to patient seated at table. Provide pen and ask patient to cut each of 3 lines down the middle. • Interpretation: Score each line based on deviation from midpoint noting if >.5" or <.5" to right or left of midline.	Pencil/Paper Clock Drawing: • Purpose: Determine intact visual fields and visual attention • Tools: Pen, Blank Paper • Procedure: Place blank paper midline and anteriorly to patient seated at table. Provide pen and ask patient to draw a clock with all numbers. • Interpretation: Score for each correct placement of 12, 3, 6, and 9.
Note: Obtain visual history prior to initiation of evaluation. Check for any gaze evoked or spontaneous nystagmus! Common Abbreviations: OD - right eye, OS - left eye, OU - both eyes, CF - count fingers, HM or HMO - hand movement only, LPO - light perception only, NLP - no light perception, NI - not indicated, E - Esophoria, ET - Esotropia, E(T) - Intermittent Esotropia, X - Exophoria, XT - Exotropia, X(T) - Intermittent Exotropia, RHT/LHT - Right or Left Hypertropia	