

NAME _____

DATE _____

SYSTEM ANALYSIS OBSERVATION

Structure, Function, Integration

(Hayden 1995, revised 2013)

Please note and record the following:

A. STRUCTURAL - Skeletal (view at rest)

1. The client's face is symmetrical in shape.
2. The mandible and maxilla are in proper alignment, height, shape and size.
3. Dental occlusion is within normal limits.
e.g., there is no open bite, Class II or Class III malocclusion
4. The palatal arch and oral/dental structures are within normal limits.

	YES	NO	COMMENT

STAGE I: Tone/Neuromuscular Integrity

5. Body, trunk and facial tone are normal.
e.g., no hyper- or hypotonus noticeable in the body, upper chest or facial muscles.
6. All reflexes are inhibited.
e.g., no observable reflexes when eating or performing verbal tasks, no tongue fasciculations

	YES	NO	COMMENT
TOTAL		/2	

**STAGE II: Valving and Phonation Control
(view in single productions only)**

7. Phonation and breath support are adequate.
e.g., 1-3 seconds of phonation
8. Single voiced, nasal and un-voiced phonemes, /a/, /m/, /h/, can be produced.

	YES	NO	COMMENT

9. **Resonance is normal**
e.g., There is no overriding hyper/hyponasality

TOTAL		/3

B. FUNCTION - Neuromotor, continued (view in movement)

STAGE III: Mandibular Control (from this point on, view in connected speech)

10. **Jaw movement shows:**
- **Good range and control**
e.g., open-close; close-open; close-open-close
 - **No lateral or anterior sliding**

	YES	NO	COMMENT
TOTAL		/2	

STAGE IV: Labial-Facial Control (view in connected speech)

11. **Lip movements show:**
- **Solid contact**, *e.g., medial one-third of labial surface*
 - **Independent movement**, *e.g., lips independent of jaw*
 - **Individual movement**, *e.g., independent lower lip movement*
12. **Labial-facial muscle movement shows:**
- **Good retraction**
 - **Good protrusion**

	YES	NO	COMMENT
TOTAL		/5	

STAGE V: Lingual Control (view in connected speech)

13. **Tongue body moves independently from the jaw in the following regions:**
- **Anterior**
 - **Mid**

	YES	NO	COMMENT

- Mid-back
- Back

TOTAL		/4

C. INTEGRATION - All systems + timing and prosody

STAGE VI: Sequenced movements across all planes

	YES	NO	COMMENT
14. Voicing is adequate and can be supported/maintained through a voiced three phoneme unit. <i>e.g., bed, Dan</i>			
15. De-voicing is appropriate and can be maintained in the initial position without affecting the remainder of the segment. <i>e.g., pig, pad, toad, etc.</i>			
16. All oral musculature moves appropriately during connected speech. <i>e.g., no extraneous movements, sound additions or groping</i>			
17. Facial muscles show good combined alternate movements. <i>e.g., retraction/protrusion</i>			
18. All muscle groups evidence adequate tone, symmetrical movement, independent and coordinated functioning. <i>e.g., jaw, facial, labial, lingual</i>			
TOTAL		/5	

STAGE VII: PROSODY

	YES	NO	COMMENT
19. Timing for co-articulation is normal for age. <i>e.g., intonation and phrasing is marked</i>			
TOTAL		/1	

Additional comments: