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Phonological Processes

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All children make predictable pronunciation errors (not really 'errors' at all, when you stop to think about it) when they are learning to talk like adults. These 'errors' are called phonological processes, or phonological deviations. In Table 2 are the common phonological processes found in children's speech while they are learning the adult sound-system of English.

TABLE 2: Phonological Processes in Typical Speech Development

| PHONOLOGICAL PROCESS (Phonological Deviation) | EXAMPLE | DESCRIPTION |
|---|--|--|
| Context sensitive voicing | "Pig" is pronounced and "big" "Car" is pronounced as "gar" | A voiceless sound is replaced by a voiced sound. In the examples given, /p/ is replaced by /b/, and /k/ is replaced by /g/. Other examples might include /t/ being replaced by /d/, or /f/ being replaced by /v/. |
| Word-final devoicing | "Red" is pronounced as "ret" "Bag" is pronounced as "bak" | A final voiced consonant in a word is replaced by a voiceless consonant. Here, /d/ has been replaced by /t/ and /g/ has been replaced by /k/. |
| Final consonant deletion | "Home" is pronounced a "hoe" "Calf" is pronounced as "cah" | The final consonant in the word is omitted. In these examples, /m/ is omitted (or deleted) from "home" and /f/ is omitted from "calf". |
| Velar fronting | "Kiss" is pronounced as "tiss" "Give" is pronounced as "div" "Wing" is pronounced as "win" | A velar consonant, that is a sound that is normally made with the middle of the tongue in contact with the palate towards the back of the mouth, is replaced with consonant produced at the front of the mouth. Hence /k/ is replaced by /t/, /g/ is replaced by /d/, and 'ng' is replaced by /n/. |
| Palatal fronting | "Ship" is pronounced as "sip" "Measure" is pronounced as "mezza" | The fricative consonants 'sh' and 'zh' are replaced by fricatives that are made further forward on the palate, towards the front teeth. 'sh' is replaced by /s/, and 'zh' is replaced by /z/. |
| Consonant harmony | "Cupboard" is pronounced as "pubbed" "dog" is pronounced as "gog" | The pronunciation of the whole word is influenced by the presence of a particular sound in the word. In these examples: (1) the /b/ in "cupboard" causes the /k/ to be replaced /p/, which is the voiceless cognate of /b/, and (2) the /g/ in "dog" causes /d/ to be replaced by /g/. |
| Weak syllable deletion | Telephone is pronounced as "teffone" "Tidying" is pronounced as "tying" | Syllables are either stressed or unstressed. In "telephone" and "tidying" the second syllable is "weak" or unstressed. In this phonological process, weak syllables are omitted when the child says the word. |
| Cluster reduction | "Spider" is pronounced as | Consonant clusters occur when two or |

| | "pider" "Ant" is pronounced as "at" | three consonants occur in a sequence in a word. In cluster reduction part of the cluster is omitted. In these examples /s/ has been deleted form "spider" and /n/ from "ant". |
|--|-------------------------------------|---|
| Gliding of liquids "Real" is pronounced as "weal" "Leg" is pronounced as "yeg" | | The liquid consonants /l/ and /r/ are replaced by /w/ or 'y'. In these examples, /r/ in "real" is replaced by /w/, and /l/ in "leg" is replaced by 'y'. |
| Stopping "Funny" is pronounced as "punny" "Jump" is pronounced as "du | | A fricative consonant (/f/ /v/ /s/ /z/, 'sh', 'zh', 'th' or /h/), or an affricate consonant ('ch' or /j/) is replaced by a stop consonant (/p/ /b/ /t/ /d/ /k/ or /g/). In these examples, /f/ in "funny" is replaced by /p/, and 'j' in "jump" is replaced by /d/. |

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Table 1: Intelligibility to parents

Table 3: Elimination of Phonological Processes

Table 4: Phonetic Development

Speech intelligibility from 12 to 48 months

Q&A: Speech Sound Disorders

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http://www.speech-language-therapy.com/Table2.htm

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Phonological Development

THE GRADUAL ACQUISITION OF THE SPEECH SOUND SYSTEM COPYRIGHT ©1999 CAROLINE BOWEN

TABLE 3: Elimination of Phonological Processes

Phonological processes are typically gone by these ages (in years; months)

| Phonological processes are typical PHONOLOGICAL PROCESS | EXAMPLE | GONE BY APPROXIMATELY |
|---|--|-----------------------|
| Context sensitive voicing | pig = big | 3;0 |
| Word-final de-voicing | pig = pick | 3;0 |
| Final consonant deletion | comb = coe | 3;3 |
| Fronting | car = tar ship = sip | 3;6 |
| Consonant harmony | mine = mime kittycat = tittytat | 3;9 |
| Weak syllable deletion | elephant = efant potato = tato television =tevision banana = nana | 4;0 |
| Cluster reduction | spoon = poon train = chain clean = keen | 4;0 |
| Gliding of liquids | run = one leg = weg leg = yeg | 5;0 |
| Stopping /f/ | fish = tish | 3;0 |
| Stopping /s/ | soap = dope | 3;0 |
| Stopping /v/ | very = berry | 3;6 |
| Stopping /z/ | zoo = doo | 3;6 |
| Stopping 'sh' | shop = dop | 4;6 |
| Stopping 'j' | jump = dump | 4;6 |
| Stopping 'ch' | chair = tare | 4;6 |
| Stopping voiceless 'th' | thing = ting | 5;0 |
| Stopping voiced 'th' | them = dem | 5;0 |

References

Bowen, C. (1998). Developmental phonological disorders. A practical guide for families and teachers. Melbourne: ACER Press.

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Grunwell, P. (1997). Natural phonology. In M. Ball & R. Kent (Eds.), The new phonologies: Developments in clinical linguistics. San Deigo: Singular Publishing Group, Inc.

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