Welcome to...



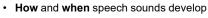
Phonology Day 1 Training

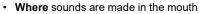
With **all of us** in mind.

1

Aims of the day







- Pure sounds and properties of sounds
- The Speech Chain
- Sound screening assessment
- Referral to Speech and Language Therapy
- General **strategies** to help in the classroom
- · Attention and Listening levels
- Quiz



2

Purpose of the training



- To give background knowledge
- Enable you to start and use activities and strategies
- · Part of a child's treatment
- Enables you carry out regular practice
- Opportunity to work with hard to reach children



3

Icebreaker



- · Have you ever met anyone famous?
- What's something nice that's happened to you this week?
- What's the last thing that made you laugh out loud?

With all of us in mind.

4

Speech not language... Sounds not letters...



- Speech is how we say things, not what we say.
- We also call speech sounds 'phonology'
- Remember the sounds in words are not always the same as the written word.

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South West Yorkshire Partnership Acquisition of Speech Sounds

- Speech development from birth
- Order of speech sound development





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Speech Development from Birth

Birth
South West
Yorkshire Partnership
NHS Foundation Trust

- · Complex process
- · Starts from birth
- · Born with 'in-built' abilities
- · Cry range of cries
- · Cooing increase noises
- Babble experimenting with sounds
- Words parents model words



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South West Yorkshire Partnership Order of speech sound NHS Foundation Trust development

 Practical activity – look at the sounds and decide when they start to emerge for children!!



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Typical errors...

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What would a child say for these words...

- red =
- sun =
- four =
- watch =



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Delay or disorder

- Delay: Children making common speech errors, e.g. replacing difficult sounds with easier sounds.
- Disorder: Children making unusual errors, not typically seen in younger children.



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South West Yorkshire Partnership Speech sound articulation NHS Foundation Trust

- Where sounds are made in your mouth
- Articulation places: Teeth, lips, alveolar ridge, hard palate, soft palate
- Tongue is not a place of articulation

Practical Activity – work out where sounds are made in your mouth!!



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Pure Sounds



- The 'pure forms' of sounds need to be used
- The 'pure form' emphasises the 'properties' of a sound

Practicalsaying pure sounds!!



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Pure sounds

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Say the following as pure sounds:

P V B S T CH F J

Practice saying the following using the 'pure form' of each sound:

Sat Book

Jump Fish



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Properties of Sounds

Group discussion

- · What is the difference between
 - d/g
 - t/s
 - p/b



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Properties of Sounds

South West Yorkshire Partnership The properties of sounds that need to be NHS Foundation Trust considered are :-

- · Loud or Quiet: whether the sound is voiced or voiceless
- · Front or Back: where the sound is made in the mouth
- · Long or Short: The length of the sound



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Properties of Sounds

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- 1) Long or short?
- 2) Loud or quiet?
- 3) Front or back?

B =

M =

S=

CH =

K =

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Properties of Sounds



•The properties of different sounds can be emphasised when we use the 'pure form' of a sound

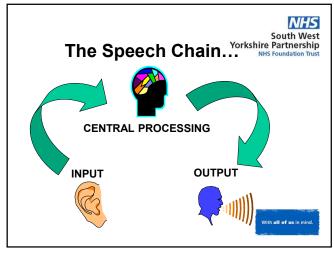
For example - make an 's' really long, and a 'p' really short

· Children often confuse properties of sounds

For example - a child may replace long sounds with short ones e.g. 's' \rightarrow 't'



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The Speech Chain

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• INPUT - Hearing, discrimination, listening



• CENTRAL - Knowledge about the word- sound and meaning



- OUTPUT muscles, speech rate,
 - Practical- what can go wrong at each of these levels?

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More about central processing



Phonological representation of the word - sounds in the words (beginning, middle and end) syllables, rhyme group

e.g. pen = 'p' to start, 'e' middle sound, 1 syllable, rhymes with ten $\underline{\textbf{Semantic representation}} \text{ - word meaning}$

e.g. pen = stationery, use for writing, plastic, long, has ink

 $\underline{\textbf{Grammatical representation-}} \ \textbf{type of word, where in sentence}$ e.g. pen = noun, plural is pens

 $\underline{\textbf{Orthographic representation -}} \ \text{how the word is written remember}$ sounds and letters are not always the same

 $\underline{\textbf{Motor programming sequence -}} instructions \ to \ send \ to \ your \ mouth \ on$ how to say the word e.g. 'p' (front, short, quiet) > 'e' (vowel) > 'n' (front, long, loud)

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Possible Causes of Breakdown

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 INPUT – poor attention, glue ear, permanent hearing loss, poor discrimination (refer to the glossary)



 CENTRAL – learning difficulties, poor phonological awareness, slow processing / poor memory, localised brain trauma in language centres in the brain, poor sound programming (dyspraxia)



 OUTPUT – immaturity, developmental delay, cleft lip/palate, weak muscles (dysarthria) poor co-ordination of muscles, poor under developed dentition, prolonged dummy and bottle use



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Speech Sound Screening Tool

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- Identify children with speech sound difficulties
- Supports referrals
- · Monitor progress
- Can be repeated

Practical- speech screen practise!!



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Using the screening tool



- Each picture links to 1 sound in at the beginning or end of a word.
- Pig = 'p' initial

Zip = 'p' final

- Monkey = 'm' initial Worm = 'm' final
- NB. Bib = listen for both 'b' initial and final on this
- Don't need to listen for 'w' final, 'ng' initial, 'h' final, 'r' final, 'y' final. Not part of our local speech system.
- Tick if you hear the sound clearly. If not write in the sound you think the child used.
- If the sound is missing use symbol



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Mia 3;6 years

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- Stopping z>d, f>p, s>t, sh>t, v>b (but some sounds are emerging eg. f, s, v in final word position)
- Gliding I/r>w sound
- Cluster reduction sw>w, fr>f, br>b
- Another pattern is sh>s (very typical in children)
- Refer back to speech norms
- Mia is falling into normal limits for her talking as between 3-4 years s, f sounds are still developing.
- Sounds t, d, k, g, p, b, n, m, w, h in place.
- Showing signs that f, s, and even v, z are developing.
- No need to refer Mia.



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Erin 4;6 years

NHS

South West Yorkshire Partnership

- Fronting: Erin is replacing back sounds with front sounds. k t tea (key) tot (sock), g - d dirl (girl) bad (bag)
- Voicing errors: d -t wet (red)
- **Stopping:** Erin is using short sounds for long ones f p, v b, s
- Final Consonant Deletion: keys > dee, five > bye
- Refer back to speech norms Erin has a speech delay
- Needs to be referred to the SLT department but the likelihood is that with some help she will make progress.
- Likely that Erin will need advice and some practise in a short episode of care.

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Rosie 4;6 years

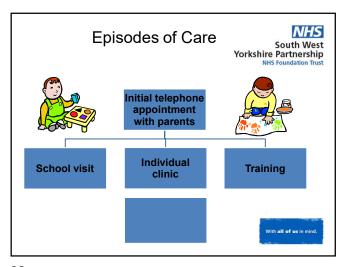
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 'd' substitution for a wide range of sounds – k,g, s,f, sh, v, z, j, ch

- Significant final consonant deletion
- · Severe intelligibility issues as many words sound the same and there are fewer contrasts between words $% \left(1\right) =\left(1\right) \left(1\right)$
- Initial sound deletion initial 't'
- · Vowel errors e>a and air>ar
- Rosie has a speech sound (phonological disorder)
- She would need a referral

With **all of us** in mind

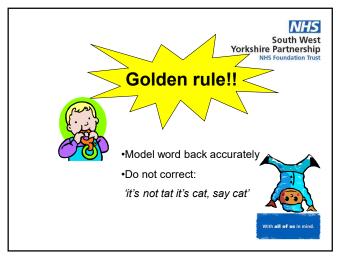
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Are children just lazy? South West Yorkshire Partnership NHS Foundation Trust

NHS

Practical

1) Replace 't' with a 'k' in the following sentence: I went to a party

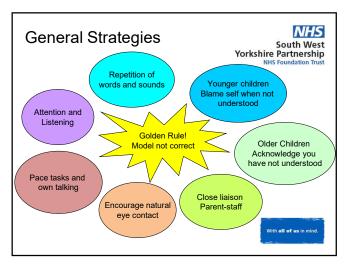
2) Replace 's' with a 'd' in the following sentence: On Saturday we are doing swimming

Now try replacing 't' with a 'k' in...

- Your full name, age, address, job
- Your favourite film, song, food



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NHS South West Yorkshire Partnership **Attention and listening**

Attention and listening skills are crucial for speech

- sound development Need to be able to listen to discriminate sounds (hear
- the difference between sounds)
- May need to work on attention and listening before you can work directly on speech sounds
- There is a developmental order of development which we use.



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NHS **Order of development** South West Yorkshire Partnership Stage 1 (O-1 year): extreme distractibility, listens to the most dominant auditory stimulus Stage 2 (1-2 years): concentrates on a concrete task of his own choosing, not tolerate any intervention by an adult (whether Stage 3 (2-3 years): Listening skills are single channelled as he

cannot listen to an adult's direction whilst he is playing.

Stage 4 (3-4 years): still single channelled but child is able to shift his own attention from doing to listening

Stage 5 (4-5 years): Listening now become part of a twochannelled process, child can simultaneously listening and do Stage 6 (5-6 years): Listening is multi-sensory system in which

a child can listen well whilst doing another activity. (Available on handout)

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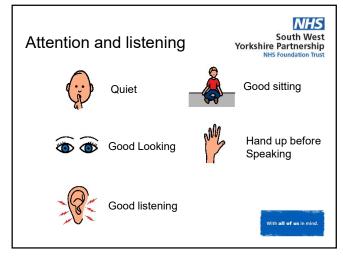
South West Yorkshire Partnership **Attention and Listening:** What can we do to help?

- Sound CD's
- Simon Says
- Listening walks
- Listening to instruments
- Stop/go activities
- Copying rhythms
- Apps

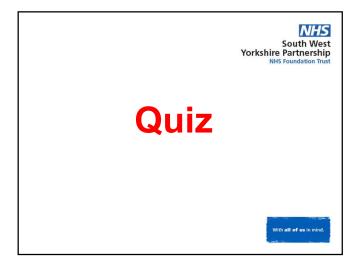
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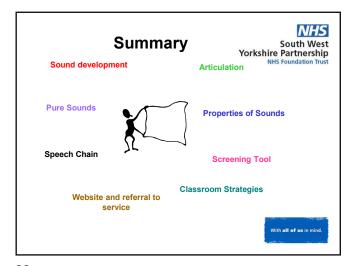
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