

What we will achieve by the end of the training

- Know the colours used for Colourful Semantics
- Practical implementation considerations
- \bullet How this can be embedded across the curriculum.
- How we can make Colourful Semantics interactive
- Resources



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Think of the students you want to target. What are their presenting difficulties?









Benefits of Colourful Semantics:

- Improves language skills using longer sentences
 Expands vocabulary
- Introduces adjectives, prepositions, adverbs
- Helps answer 'wh' questions
 Can be transferred to written sentences
- Can help reading comprehension
- Can help with storytelling (spoken and written)
- Uses different modalities to learn about making sentences.



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What is it? - Colourful semantics is an approach created by Alison

Bryan. It is aimed at helping children to develop their grammar but it is rooted in the meaning of words (semantics). Colourful semantics reassembles sentences by cutting them up into their thematic roles and then colour codes them.

- A highly effective visual way of coding the information in words and sentences. It helps children understand how the meanings of words are linked in sentences.
- Question words are used to link to this meaning. Each question word is designated a colour [or sometimes a shape].
- e.g. All words that answer a Who question are orange

The boy is jumping. "Who is jumping?" ->





Semantics???????

noun (used with a singular verb)

1.Linguistics .

- 1.the study of meaning.
- 2.the study of linguistic development by classifying and examining changes in meaning and form.
- 2. Also called significs. the branch of semiotics dealing with the relations between signs and what they denote.

 3. The meaning, or an interpretation of the meaning, of a word, sign, sentence, etc.: Let's not argue about semantics.



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Where does coding come from?

- Originally used to help children understand how the meaning of words are linked in sentences. This then helped them make correct sentences when talking.
- This meaning relationship between words dictates how the ideas are arranged in the sentence.
- The key to this meaning relationship is the verb/action word.
- The 'grammar' of the sentence can then change [e.g. verb tense, pronouns] but the overall meaning of the sentence does not change



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Common Responses





We do NOT fully code everyone!

- Not all children need full coding support for all their sentences
- If the system is throughout the school, all children will pick up the basics, then you can choose who you use it with in more detail
- Can just do additional coding for the area that's relevant for that child / lesson eg. Using more cloud words [adjectives]



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What's the difference?

Colourful semantics

- Uses colours only to code the verb and its arguments
 Works well with KS 1 and KS2 children. Comprehensive enough for some higher sentence-level language difficulties

Shape coding

- Uses shapes to code the verb and argument
 Also uses colour to code surface grammar (nouns/adjectives/prepositions) Some
 colours are different Also uses colour to cook and a colours are different
 Also codes surface verb grammar (tense/number) with lines and arrows under the verb phrase
 Works well for KS2 & KS3. Experience has shown that many younger children.



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Theory

- Verb Semantics
- How we move from having an idea to saying a sentence.
- References:
 - Verb semantics/ Functional argument structure
 - Garrett 1980, Black and Chiat (2003)
 - · Non-argument structure
 - Pinker (1989), Black and Chiat (2003)



'Verb Semantics'

- · Verbs are the core of the sentence.
- Verbs are not stored in our memories in isolation.
- All verbs are linked to 'participants' that need to be there for the sentence to make sense.



'who' does 'what' to 'whom'.

 $\ensuremath{^{*}}$ Linguists call these participants 'arguments'.



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'Verb Semantics'

- Some 'participants' are essential, others are optional
- Sentences can contain other information in the sentence that is not linked to he verb, but can still add meaning. E.g. when, how.

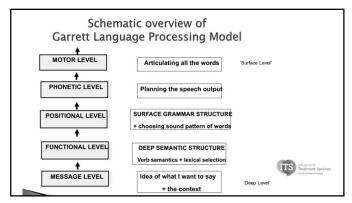


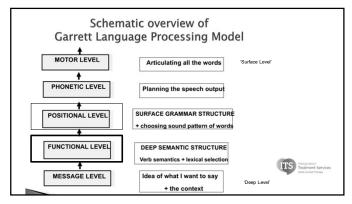
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Which verbs fit?

- The child _____ the flowers squashes, puts, falls
- The cat _____ knocks, sleeps, kills
- Our friends will _____
 congratulate, find, win
- You should _____ me a ticket send , put, pay







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Processes

- Lexical (vocabulary) selection
- Creation of verb semantics [argument structure]
- Assigning the content to the structure.



E.G. "Ben put the apple in the bowl"

Lexical items

verb = put nouns = Ben, apple, bowl

Argument structure/verb semantics for 'put'

Verb: WHO, WHAT, WHERE

Assignment

Verb: WHO, WHAT, WHERE [put]: [Ben] [apple] [bowl]



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Positional Level

- Final word order and grammatical form is planned and selected.
- 'Other information' [Non argument] in sentences that are not directly related to the verb.
- Still adds to semantic content of the sentence. E.g. adjectives, adverbs of time & manner.

"The boy is tall"

"Last week I went on holiday"



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Types of Verbs

- run
- gave
- carried
- hop
- smile





Scope of Colourful semantics

- Supports understanding and creating the underlying 'verb semantics structure'
- Supports assigning the right words to the right 'slots'
- Supports normal language learning skills e.g. slows speaker's speed and increases stress patterns (phonological bootstrapping)



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What is the Basic coding?

- Every verb has essential word meanings linked with them.
- These are the basic words which can be coded in colour or occasionally a shape
- Each colour is linked with a question word [who, what, where, doing, who to,]

You don't have to be an expert at analysing sentences to find these essential word meanings!



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Verbs are the core of the sentence

Principle One :- Find the verb, ask the questions

- 'Questions' can help us get to the 'deep structure' of that verb [i.e. verb semantics/ argument structure]
- Your questions should give an answer that makes sense e.g. The girl ate a biscuit

WHAT did she eat → a biscuit WHERE did she eat? → a biscuit?????



How does this relate to our children???

- Are 'WH' questions important?
- When should children be able to answer these?





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Typical development

- All children develop at different rates
- Typically children will be able to use level 4 by age 5/6
- Autistic children spiky profile
- Developmental delay
- Generalisation





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Blank level language development I II III IV Teaching materials language matches matches materials but how who be language & motorials looking at the whole be colpict. Language & motorials in the whole be colpict. Selectively on parts of the object. The collicity of the context. Demands of Deprond materials but materials but materials but language & motorials collicity of the language & motorials collicity of the language is object. It is context.



Blank Level One

- Naming object
- Finding things by name
- Matching



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Blank Level 2



- Features of an object, characteristics, function
- 'Wh' questions Who, doing What, Where, (not "Why")
- Sorting
- Same vs different
- Things together e.g. knife and





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Blank Level 3

- Re-telling events
- Predictions what next?

 What others may say.
 - What others may say?
- Negatives
- Feelings
- Follow/ give a set of instructions







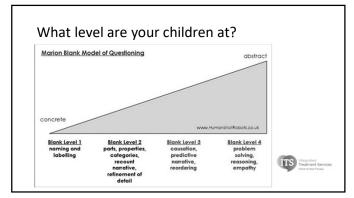
Blank Level 4

- "why" questions
- Problem solving
- Justifications





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Let's have a look at the colour coding.

- Orange words tell us WHO
- Yellow words tell us what they are DOING
- Green words tell us WHAT
- Blue words tell us WHERE
- Pink words tell us who TO



Key to Basic Coding→ Can you remember the principles?

Principle ONE :-

"Find the verb and ask the questions"

Principle TWO :-

"ALL the words that answer the question are the same colour"



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People e.g. man, woman, girl, boy, baby, family members – e.g.Uncle Peter)

Occupations e.g. Speech Therapist, teacher, doctor, dentist
Characters e.g. The Gruffalo, Peppa
Pig, Peter Rabbit (personifications)

NOT animals!!



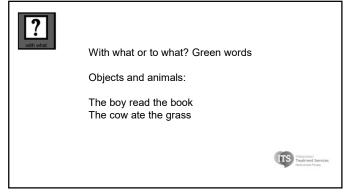
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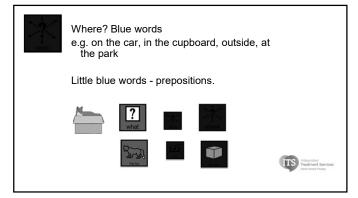


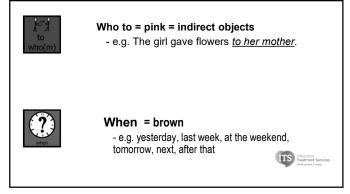
Doing what? -Verbs

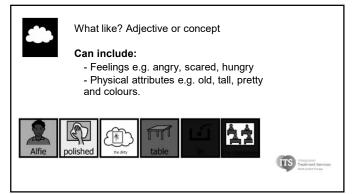
- · Can include:
 - 'stand alone' verbs e.g. run, sit
 - verbs associated with an object e.g. wash (car), brush (hair)
 - different tenses (past, present, future)
 - 'is' (copula)
 (links the subject of a sentence to a subject complement)

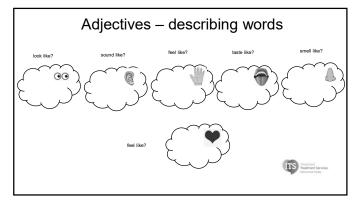




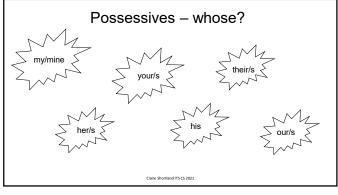








Other information	Question	Colour/shape
Adjective/concept	What like	P
Adverb (time)	when	Brown
Adverb (manner)	How	Black
Cause and effect	why	Purple arrow
Sentence joining	Joining up words	Purple rectangle
Auxiliary verbs	Little doing words	Yellow +
Possessives	Whose?	Em E
		ITS Independent Teachment Check control of the Cont



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Full mantra

- Orange words tell us WHO
 Yellow words tell us what they are DOING
- Green words tell us WHAT
- Blue words tell us WHERE
- Pink words tell us who TO
- Brown words tell us WHEN
- Black words tell us HOW
- Purple words tell us WHY [& join things up]
 Cloud words tell us WHAT is it LIKE
- Star words tell us WHOSE



We do NOT code everything!	
Tool not a straight jacket!	
• Be selective	
You are in control of what is coded	
Do not have to try and code what the child says!	
Use it to scaffold what you need	ITS Integrated Treatment Services Cover served Photos

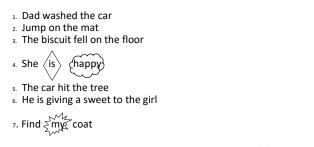
Let's try these examples

- 1. Dad washed the car
 2. Jump on the mat
 3. The biscuit fell on the floor
 4. She is happy
 5. The car hit the tree
 6. He is giving a sweet to the girl
 7. Find my coat
 8. The brick sank because it was heavy
 9. He is looking under the car
 10. Paint a big picture
 11. The little girl is cutting the paper
 12. We stopped because we were tired
 13. He at the judding with a 50
 13. He at the judding with a 50
 14. Yesterday I went to the shops



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- 8. The brick sank because it was heavy.
- 9. He is looking under the car.
 10. Paint a big picture.
 11. The (little) girl is cutting the paper
- 12. We stopped because we were tired.
- 13. He ate his pudding with a spoon.
- 14. Yesterday I went to the shops.



Examples of Colourful Semantics in the classroom

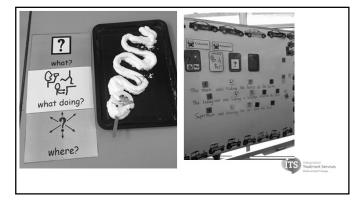


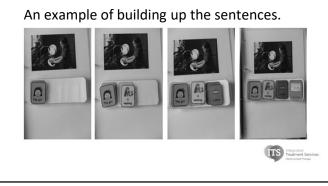


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How to represent elements

- Symbols/words on colour cards select and arrange in right order to match colour line
- · Symbols/words on **white card** arrange on colour lines
- \cdot Child draws coloured lines under words or shape round words
- \cdot Written sentences with colour 'gaps' to be filled in
- · Laminated coloured/shape boards + draw/write/stick on words/symbols



Information-Carrying Words.

- Devised by Knowles and Massidlover (1978) and underpins the Derbyshire Language Scheme.
 An ICW or key word is a word that carries meaning.

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 Many words in a sentence are redundant.

 If everyone is going out to play and the teacher holds up a child's coat and says, "Put your coat on" How many words (information-carrying words does the child need to understand?



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Equipment: Scissors, pencil and rubber "pass me the scissors"

How many information carrying words?

Activity two

Equipment: Dolly, teddy, chair and table

"put teddy on the chair"

How many information carrying words?

How many information carrying words?

Activity three

Equipment: Brush and dolly

"Brush dolly's hair"



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Activity four

Equipment: Big cat, little cat, big dog, little dog, car and boat

"Put the big cat in the car"

How many information carrying words?

Equipment: big dolly, small dolly, big teddy, small teddy

"make the big dolly sleep"

How many information carrying words?

Activity six

Equipment: ball, jigsaw, book and car "Where's the ball?"



How many information carrying words?

Activity seven Equipment: Banana, apple, bag and basket "put the apple in the basket"			
How many information carrying words?			
Activity eight			
No equipment needed "Where's your nose?"			
How many information carrying words?			
Activity nine Equipment: pictures of snake, frog, swing and slide		-	
"put the snake under the swing"	ITS Integrated Treatment Services Chart-corond Treatmy		
How many information carrying words?			
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Activity Ten What equipment would be needed to make this instruction	a 3-word		
information-carrying instruction?	a 5-word		
'Give Lucy the small crayon'.			
	-		
	ITS Integrated Treatment Services Clare carried Treaty		
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		_	
2-4 ICW - order of teaching for			
developing spoken sentences			
1. Start with verb + 1 argument e.g. verb:actor (DLS person + action)			
 Increase variety of verbs/nouns Add different argument 			
e.g. verb: theme, (DLS 'action+ object', 'action+ place')			
 Increase variety of verbs/nouns Introduce verb +2 arguments. Same vocab 			
e.g. verb: actor, theme verb: actor, location (DLS person + action + object person + action + place)	(7)		
	Integrated Treatment Services Clark certaid Therapy		

2-4 ICW - order of teaching (cont'd)

- 6. Increase verb and noun variety
- 7. Contrast with non argument: 'What like?'

- 8. Introduce verb + 3 arguments [e.g. put/give/show] e.g. 'give' = verb: actor, theme, recipient (DLS = transfer of object to person 4 ICW) 'put' = verb: actor, theme, location/goal (DLS = movement of object to stated place 4 ICW)



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Order of teaching (cont'd)

- But need to be child led &/or curriculum led
- Generally don't teach arguments in isolation from verb!
- But older child can just focus on problematic isolated role/non argument or sentence type
 - e.g. why questions, passives
- Higher level sentence coding will include more non-argument structures



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Activity

• Have a look at the resources on your table. Working as a group, work out what sentences and colour codes can be achieved from the activities. How can the activity be extended to include additional information?







Full mantra

- Orange words tell us WHO
 Yellow words tell us what they are DOING
- Green words tell us WHAT
- Blue words tell us WHERE
- Pink words tell us who TO
- Brown words tell us WHEN
- Black words tell us HOW
- Purple words tell us WHY [& join things up]
- Cloud words tell us WHAT is it LIKE
- Star words tell us WHOSE



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Interventions.

- What school-based interventions are you using in school?
- What were the difficulties and positives encountered when setting up the intervention?



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What do we need to consider?

- Curriculum-led or individual needs-led (targets in EHCP)
- Universal support v specialist intervention
- Nature of setting [mainstream v specialist provision]
- Level of SLT support on site



a May Share	
• Key Stage	
Communication-friendly classrooms status?	
Senior team engagement - top down v bottom up roll out	
School development plan	_
Teachers' needs	
TTS Transment Services Continues Transment	
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•	
What level of classroom application is appropriate to aim for?	
aim for?	
SPECIALIST SETTING	
Interpreted fundamental fundam	
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	1
Advantages of a specialist setting	
More uniform populationish	
 Higher percentage of pupils viewed by staff as benefitting from the approach 	
 Staff more skilled at multiple support strategies Specialist visual support strategies already in place 	
across the setting :- signing, symbol use, PECS, picture support	
Symbol writing software	

•	Highly	-diffe	rentiat	ed cu	rriculu	m

- Restricted language input is more acceptable [as opposed to focus on expansion as priority]
- Overlearning/frameworks reusable resources
- More inter-professional joint planning
- Probably higher SLT profile and presence
- \bullet Easier to integrate SLT programme into the curriculum ?



Story telling



- \bullet Colourful semantics works really well to support story telling / narrative work
- Look through the books provided and see how colourful semantics can work within the book to support story telling/narrative work



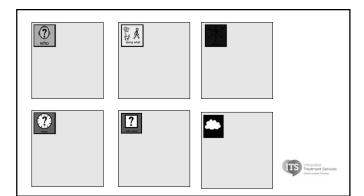








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Narrative resources

Bookmarks to support reading.





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Telling news



- Very difficult for non-verbal children
- How can this be encouraged?
- How can colourful semantics support
- Work through the sentences colour coding them.
- How can the symbols best be arranged for this activity?





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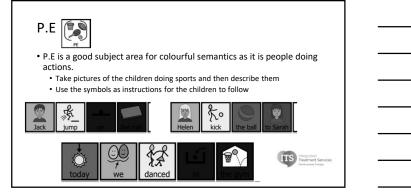
Supporting written lesson materials

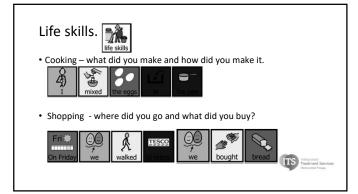
- Picture description
- Write about what they have done
- Differentiated levels
 - Symbols and sentence strip
 - Cut the words and stick on coloured blocks
 - Coloured lines on the page.





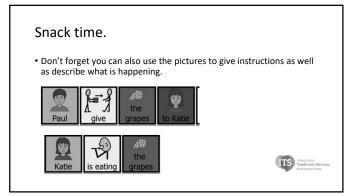


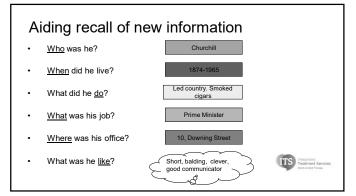


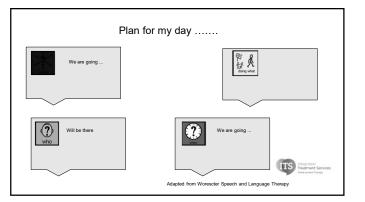


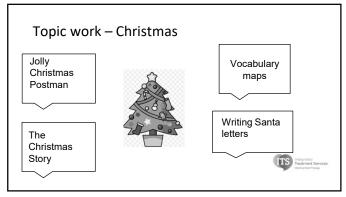


• Sensory circuits • Trained forces











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Let's work it through on Boardmaker online

How do we change the symbols for the different colours? How do I search for pictures not in the symbol bank? How can I upload children's photos into the media search? How can I make it interactive?





Where can I find resources?

- Integrated Treatment Services https://www.integratedtreatmentservices.co.uk/
- Blacksheep press

https://www.blacksheeppress.co.uk/

https://www.twinkl.co.uk/resource/t-s-1653-make-a-sentence-who-

what-doing-where



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USEFUL LINKS

An article on Colourful Semantics

<u>Downloadable resources</u> for Colourful Semantics and many others.

Examples: Pre School, Primary School, Secondary School,

Christmas, Language Levels

Latest <u>news articles</u> written by members of our team and key experts

in the fields of ASD, Education and more.

Further information on utilising our <u>Therapy Services</u> in your setting.

