

Thuringian Institute for In-service Teacher Training, Curriculum Development and Media.



**To do justice to the
heterogeneity of a
class through
structuring learning**

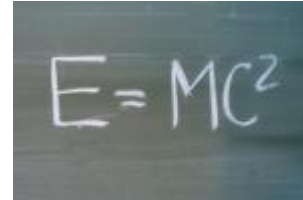
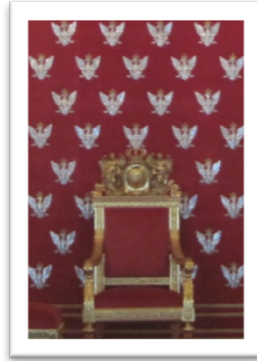
Pilot Project for joint instruction in Thuringia:

Teaching of pupils with **Additional Learning Needs** according to the teaching plans for primary and secondary schools.

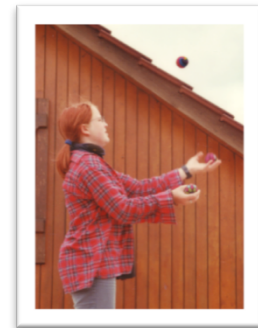
(26 schools are involved)



***learning processes can be prepared for
learners with different starting positions in
one class***



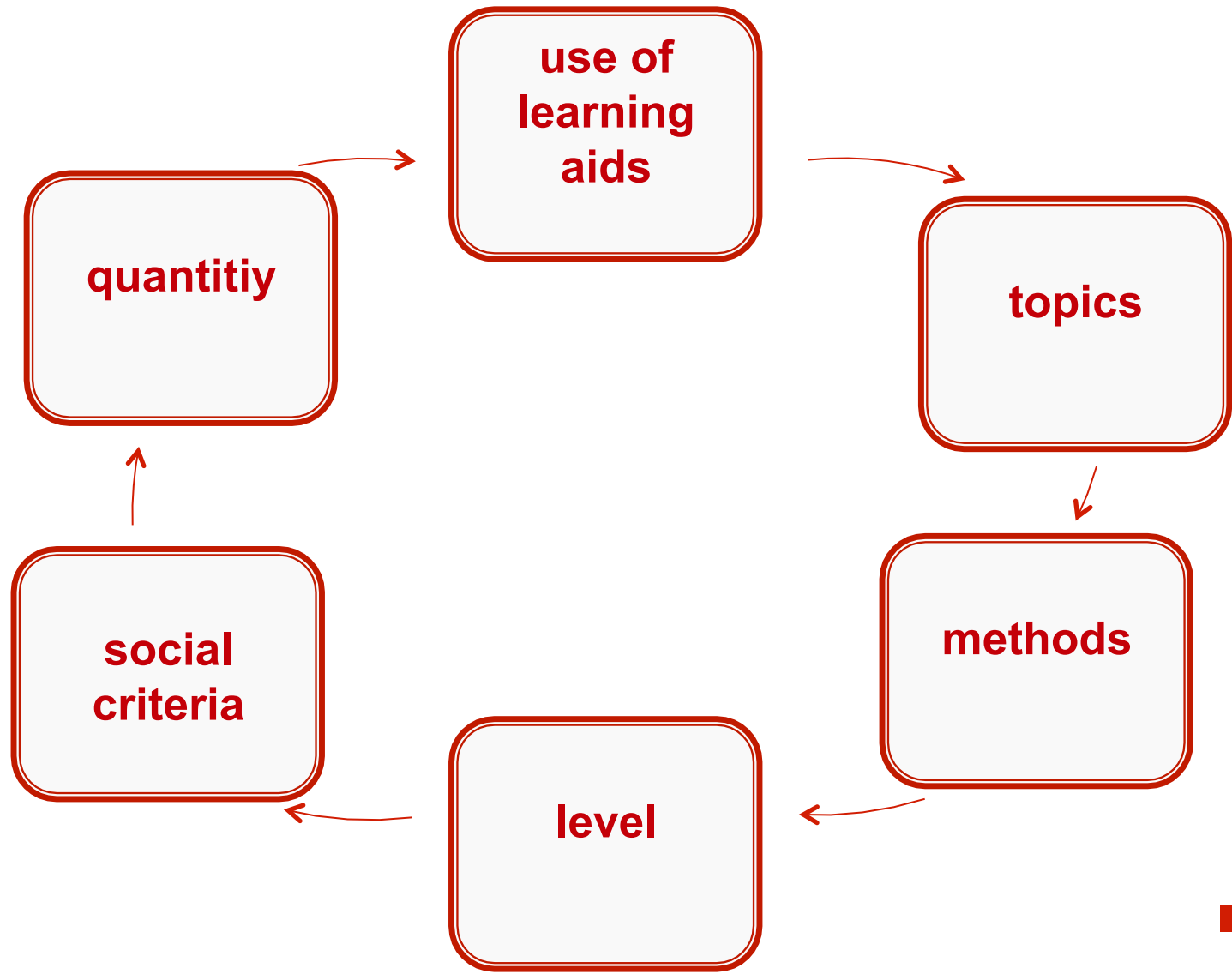
a greater heterogeneity



diversity:

biography, type of learner, predisposition, ability, creativity, level of development,
pace of learning, ...

Differentiation in ...



Based on the cognitive development stages of Jean Piaget and the orientation towards the structure and level of learning of Prof. Reinhardt Kutzer

MULTIDIMENSIONALITY OF LEARNING

stages of internalisation

	Piaget		Kutzer
<u>levels of the cognitive development</u>	abstract level	3. generalisation	ability for abstract use of the findings gained from the particular learning material
	symbolic level	2. generalisation	letters or words, numbers
			Illustrations
	visualising the learning matter	1. generalisation	complete visualisation
partial visualisation			
practical handling of the learning matter		descriptive, practical	

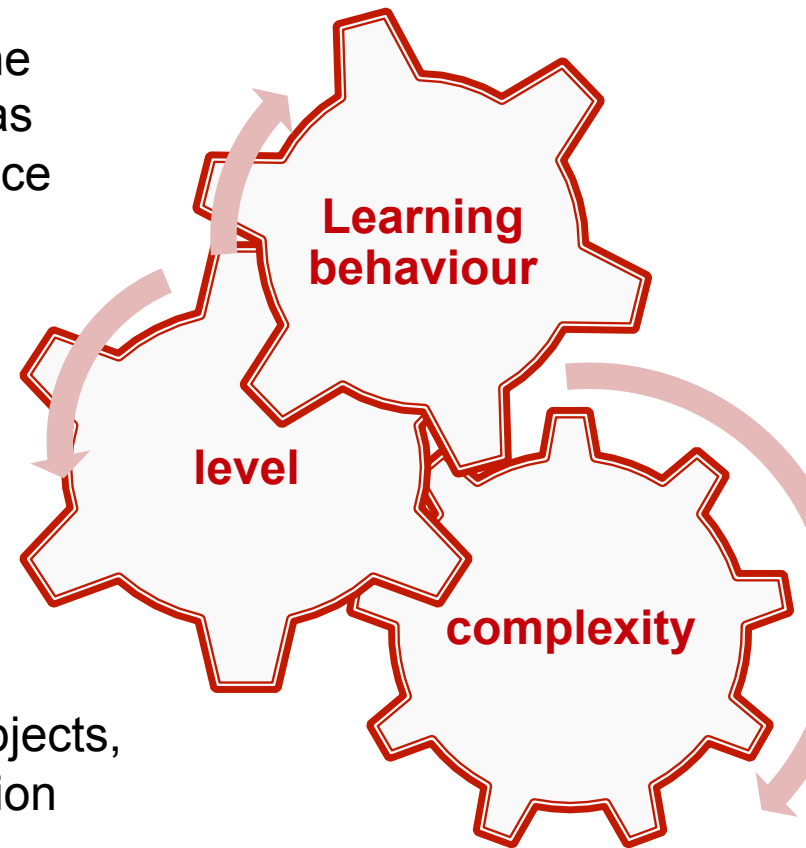
Multidimensionality of learning by Kutzer

Dimension **complexity**: is derived from the different scientific components of a topic as well as the existing knowledge + experience of the pupils

Dimension **level**: starting point is current developmental status for the pupil, their abilities to abstract and generalise

Dimension **learning behaviour**:

- learning through free association with objects, trial and error, demonstration and imitation
- independent and self-determination
- varies at the different stages of the learning process



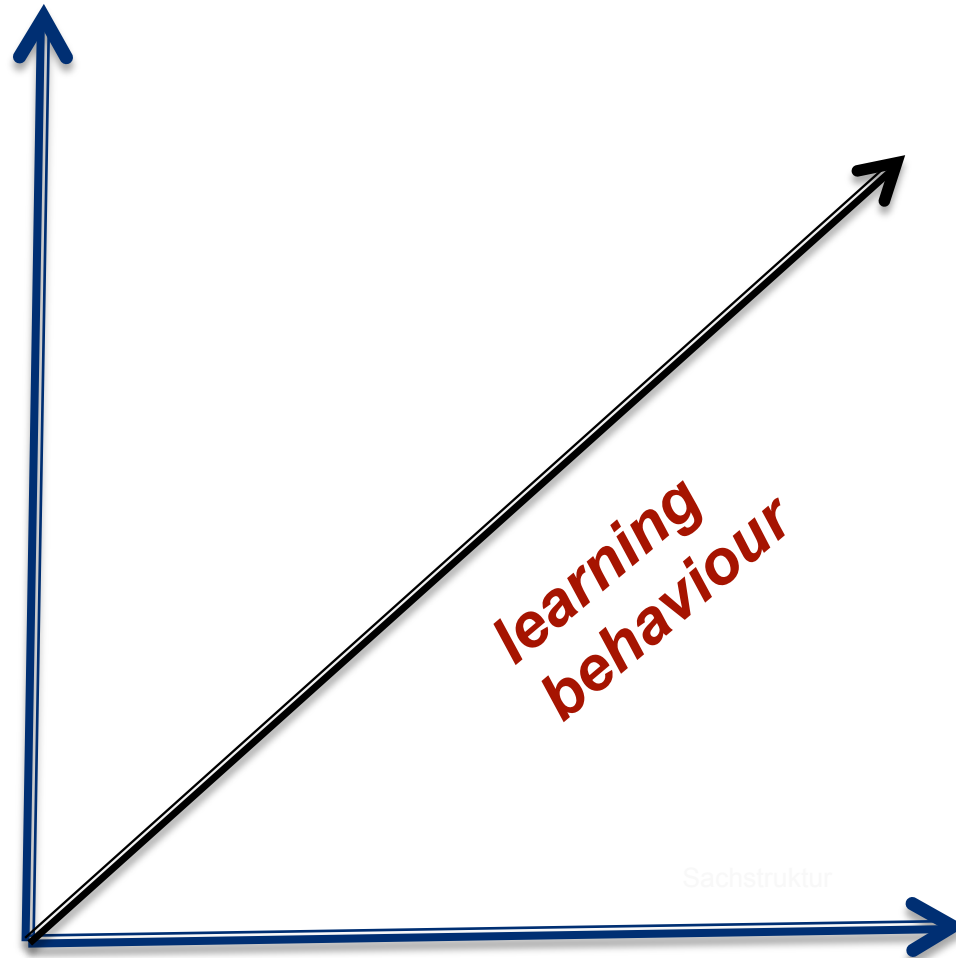
stages of the cognitive development**differentiation-matrix**

abstract level

symbolic level

complete
visualisation of the
learning matterpartial
visualisation of
learning matter

practical handling

**Complexity of subject matter**

Industrialisation, secondary school, Rositz

abstract level	presentation about inventions which promoted or accompanied the industrialisation	explain the significance of the i., understand the inevitable expansion (discussion round)	understand the significance of the industrial revolution and compare it to other revolutions and their effects (discussion)	show the presentation about the regional development during the industrialisation.	reflect their own living and learning conditions in comparison with 14-year-olds during the industrialisation
symbolic level	assemble picture material in a time-line	illustrate the associations in a flow-chart	documentation of the development of railway traffic until today (power point or posters)	prepare a presentation, sort and label picture material	make up fictitious biographies in texts and pictures (people from different social backgrounds)
complete visualisation	describe inventions and identify their benefits	learn about the causes of the beginning of the industrialization in GB, understand subsequent development (texts, talks)	gather and interpret material about the development of railway traffic as the driving force of the industrialisation	find material about a regional enterprise founded in the 19 th century, use the media and archives	derive information from different factual texts, gathering media about people's lives
partial visualisation	gather and name pictures of inventions from the 18./19. century	use of the steam engine in the textile industry in GB, comparing pictures	draw in maps: industrial towns, mineral resources, railway tracks	make or draw a model of an industrial site	come up with scenes to playact
descriptive practical	experiments with steam, light bulbs, pinhole camera	do sewing by hand and by machine (compare)	comparing photographs taken before and after 1930	trips into the surrounding area (train stations, factory buildings, companies)	watch original film material (movies)
	new technologies	preconditions and beginnings of the industrialisation	Industrialisation in Germany	industrialisation in the region	outcome of the industrialisation, social issues

Teamwork

Subject matter teacher and special education teacher work together!



The result:

Looking at poetry, 9th, grammar school, 1 pupil with a need for enhanced focus of mental development

rhyming couplets and their effects

create a poem with the found rhymes

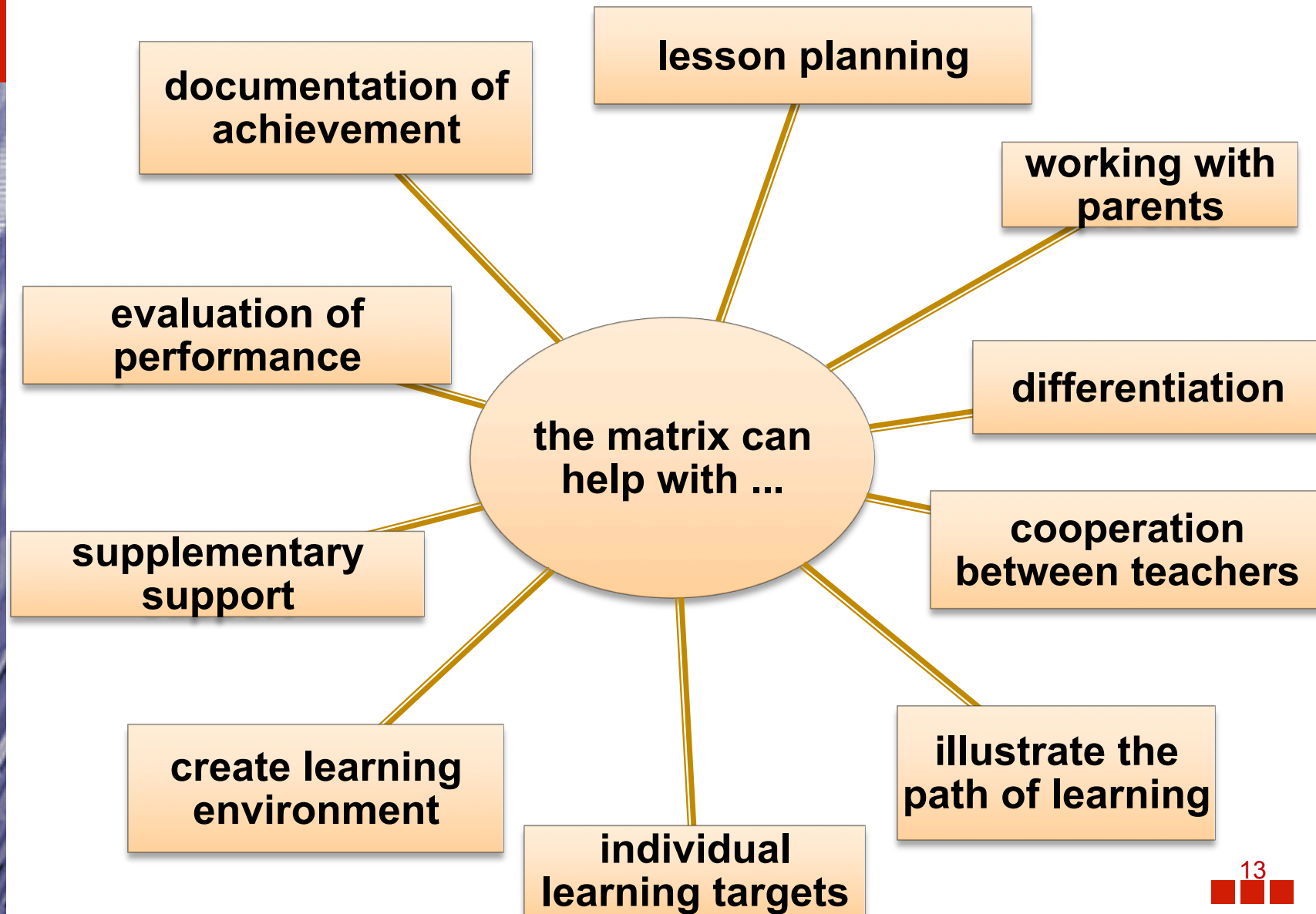
find rhymes

listen to a poem, assigning images and words

sound of words, see, listen, assembling picture material

Emanuel von Bodmann
„Der Bodensee“





The spirit of learning is the difference!

R. Kahl



Thank you for your attention!