Characteristics of studies investigating the effect of factors included in the dynamic model used for the synthesis presented in Chapter 4 of the book "Kyriakides, L., Creemers, B.P.M, Panayiotou, A., & Charalambous, E. (2021). Quality and Equity in Education: Revisiting Theory and Research on Educational Effectiveness and Improvement. London and New York: Routledge." (see Table 1 below)

Table 1: Number of studies per category concerned with the following study characteristics: a) country/region where the study was conducted, b) research design of

the study, c) interest to measure the long-term and/or the short-term effect of the factor addressed, and d) use of multilevel modelling techniques

		Da	ata drawn f	rom			Research de	esign		Searching for the			
Factors of the dynamic model	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Student-level													
Aptitude	16	5	33	5	7	7	23	20	10	20	40	51	
Perseverance			2			1		1			2	2	
Variables related to specific learning tasks:													
· Time on task	2	3	3		1			7	2		9	3	
· Opportunity to learn	6	1	7	1	3	7	4	3	2	3	15	15	
Factors that are unlikely to change:													
· SES	17	7	31	13	6	16	23	12	12	20	45	55	
· Ethnicity	18	3	19	3	3	10	16	6	6	13	26	33	
· Gender	13	7	34	4	7	12	21	12	10	17	40	51	
· Personality traits			1		1			1	1		2	1	
Factors that change over time:													
· Expectations	2	1	7	2	2	1	3	2	4	2	8	8	
· Subject motivation	5	4	9	3	5	3	2	4	9	1	17	10	
· Thinking style			1					1			1	1	

		Data drawn from					Research de	sign		Searching for the			
Factors of the dynamic model	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Classroom- level													
Orientation	3	3			1		2	4	1		7	2	
Structuring	3	2	7	1		3	4	5			12	7	
Modelling	4	2	4		1	1	3	4	2		10	4	
Application	3	3	6	1	2	2	1	8	2		13	8	
Questioning	2	3	4		1	1	1	7			9	4	
Assessment	2	2	6	1	1	2	4	4	1		11	6	
Management of time	2		6	1		1	3	5			9	6	
Classroom as a learning environment	5	2	9	3	3	3	4	7	3	1	16	10	
School-level													
School policy on teaching and actions taken to improve teaching:													
A) Quantity of teaching	4	1	7	1	4		1	9	2	2	11	10	
B) Provision of learning opportunities	3	1	6	1	4	3	1	7	4	1	14	9	
C) Quality of teaching	2	1	6	1	2	1	2	5	2	1	9	8	
Evaluation of the effect of school policy on teaching and actions taken to improve teaching			3					3			3	3	

		Da	ıta drawn f	from			Research de	sign		Searching for the			
Factors of the dynamic model	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Policy on the learning environment of the school and actions taken to improve the school learning environment:													
A) Student behaviour outside the classroom	2	1	3		2	1	2	3	2	1	7	6	
B) Teacher collaboration	6	2	7	2	2	5	7	3	1	3	13	12	
C) Partnership policy	2	2	6	1	1	1	3	7	1	1	11	8	
D) Provision of sufficient learning resources to students and teachers	14	6	8	10	9	13	7	6	9	5	31	28	
E) Values in favour of learning		1	1		1	1	1	1			3	2	
Evaluation of the learning environment of the school	1		3		3	1		5	1	1	6	7	

Characteristics of studies investigating the effect of factors not included in the dynamic model used for the synthesis presented in Chapter 4 of the book "Kyriakides, L., Creemers, B.P.M, Panayiotou, A., & Charalambous, E. (2021). *Quality and Equity in Education: Revisiting Theory and Research on Educational Effectiveness and Improvement*. London and New York: Routledge." (see Table 2 below)

Table 2: Number of studies per category concerned with the following study characteristics: a) country/region where the study was conducted, b) research design of the study, c) interest to measure the long-term and/or the short-term effect of the factor addressed, and d) use of multilevel modelling techniques

	Data drawn from						Research de	esign		Searching for the			
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Student-level													
Family-Parental characteristics													
Mother's age at their birth			1						1	1			
Mother's locus of control			1						1	1			
Family structure: type and size	1	1	3	2	1	2	2	2	2	3	5	6	
Parents'/mother's physical and mental health			2					1	1	1	1	1	
Mother's alcohol use & smoking in pregnancy			1						1	1			
Non-maternal childcare			1						1	1			
Students background characteristics and experiences:													

		Da	ıta drawn f	from			Research de	esign		Sea	rching for	the
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis
Age	3	1	9	1	2	5	2	2	3	3	10	9
Birth weight			1						1	1		
Birth order			1						1	1		
Breastfeeding			1						1	1		
Computer and internet use at home	2	1	2	1	1	1			2		3	2
Out-of-school activities not related to learning		1					1				1	1
Psychological perspective:												
Self-efficacy	1	2	2	1	2			3	2		5	3
Self-concept	1	2	5			1	1	1	4		7	6
Classroom-level												
Teacher background characteristics:												
Teacher gender	2	1	6	1		3	5	1	1	2	8	9
Teacher ethnicity /race	1						1			1		1
Teaching experience	6	1	6	1		2	8	3	1	3	11	11
Teacher knowledge	3						2	1			3	1
Teacher qualifications	11		3	6	1	6	9	5		5	16	13

	Data drawn from						Research de	sign		Sea	rching for	the
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis
Teacher professional development	4	1	3	1	1	1	4	2	3	1	9	5
Beliefs / Attitudes:												
Job satisfaction	1	1	2		1		2		2		4	3
Confidence in teaching/Teacher self-efficacy	3	1	1				2	1			3	3
Teacher beliefs	4		3			1	2	4			7	6
Teacher expectations	1				1			1	1		2	1
Instructional planning	1		3	1	2	1	2	1	3	1	6	5
Teachers' contribution out of classroom: Helping with leadership / management	2	1	1			1	3				4	2
Teaching approaches:												
Inquiry-oriented activities	1		1						2	1	1	1
Teacher-centred versus student-centred activities			1						1		1	1
Transmissional teaching			1						1		1	

	Data drawn from						Research de	esign		Searching for the			
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Classroom Organisation:													
Whole-class instruction	1		2	1		1	1	1			3	2	
Small group	2							2			2	2	
Individual activities	1							1			1	1	
Peer tutoring	1							1			1	1	
Quality of teaching: Domain-specific													
Estimation			1				1				1	1	
Classification			1				1				1	1	
Errors	1						1				1	1	
Representations	1						1				1		
Intellectual challenge	3		1		1		3	1	1	1	4	3	
Reading-specific instructional practices	1		1				1	1			2	2	
Quality of teaching: Generic factors													
Differentiated instruction	1		3		1	2	1		2	1	4	4	
Cognitive activation			2	1		2					2	1	
Presenting materials in an interesting way	1		1				1		1		2	1	
Mobile learning					1				1		1		

		Da	ıta drawn f	from			Research de	esign		Sea	arching for	the
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis
Classroom Climate	3		3	1		1	3	1	2		7	3
Context of the classroom:												
Compositional effect in terms of gender	1		8		2		1	9	1	2	9	11
Compositional effect in terms of SES	2	1	12		1		5	9	2	3	13	15
Compositional effect in terms of prior achievement	5	1	10	2		2	7	9		4	14	17
Compositional effect in terms of ethnicity	3	1	2		2		4	2	2	2	6	7
Class size	3		3	1		3	3	1		2	5	6
Peer environment	2	1	1	1	1		1		1		2	1
School-level												
Principal characteristics:												
Qualifications			1	3		3	1				4	4
Experience	1		1				2			1	1	1
Leadership style:												
Instructional leadership	3	1	1	1	1	1	2		1		4	2

		Da	ata drawn f	from			Research de	esign		Searching for the			
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Transformational leadership	2				1	1	1				2		
Compound leadership					1	1					1		
Strategic leadership					1	1					1		
People-oriented and politically oriented leadership					1	1					1		
Structure and symbol- oriented leadership					1	1					1		
Principal's time spent on:													
Innovative management					1	1					1		
Instructional activities	2	1	1	1	1		1	1	1	1	2	2	
School climate	10	2	7	1	2	8	6	1	5	4	16	13	
School autonomy	3	2	3	1	3	3		1	2		6	5	
School-based professional development	2						2			1	1	2	
Context of the school:													
Compositional effect in terms of gender			11		1	3		7	1	2	10	11	

		Da	ıta drawn f	from			Research de	sign		Searching for the			
Factors addressed	U.S.A.	Other English speaking countries	Europe	Developing countries	Other	Cross- sectional	Longitudinal (more than one year)	One year studies	Other	Long term effect	Short term effect	Multilevel analysis	
Compositional effect in terms of ethnicity	7	2	4		2	4	9		2	4	11	12	
Compositional effect in terms of SES	16	6	19	6	5	10	14	7	9	11	30	31	
Compositional effect in terms of prior achievement	11	6	14	2	2	4	17	11	1	19	17	30	
School size	8	3	3	2	1	4	7	1	2	6	8	10	
School type	5	1	5	1	1	5	5	2	1	5	8	12	