

KING'S
College
LONDON



The STEM Education Hub and the scientific pedagogy in England

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College
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Arthur Galamba

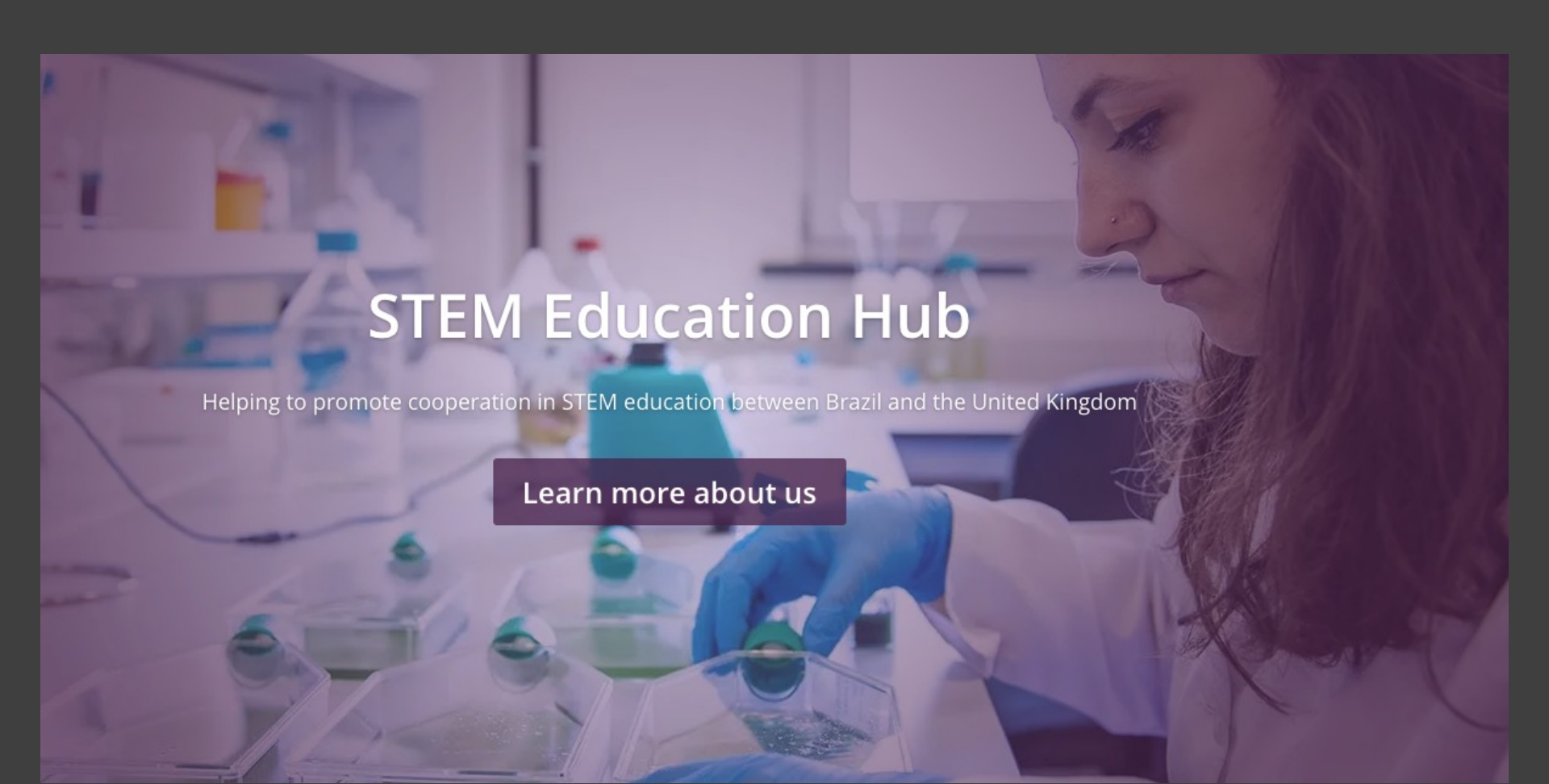




STEM
EDUCATION HUB

Created by





STEM Education Hub

Helping to promote cooperation in STEM education between Brazil and the United Kingdom

Learn more about us

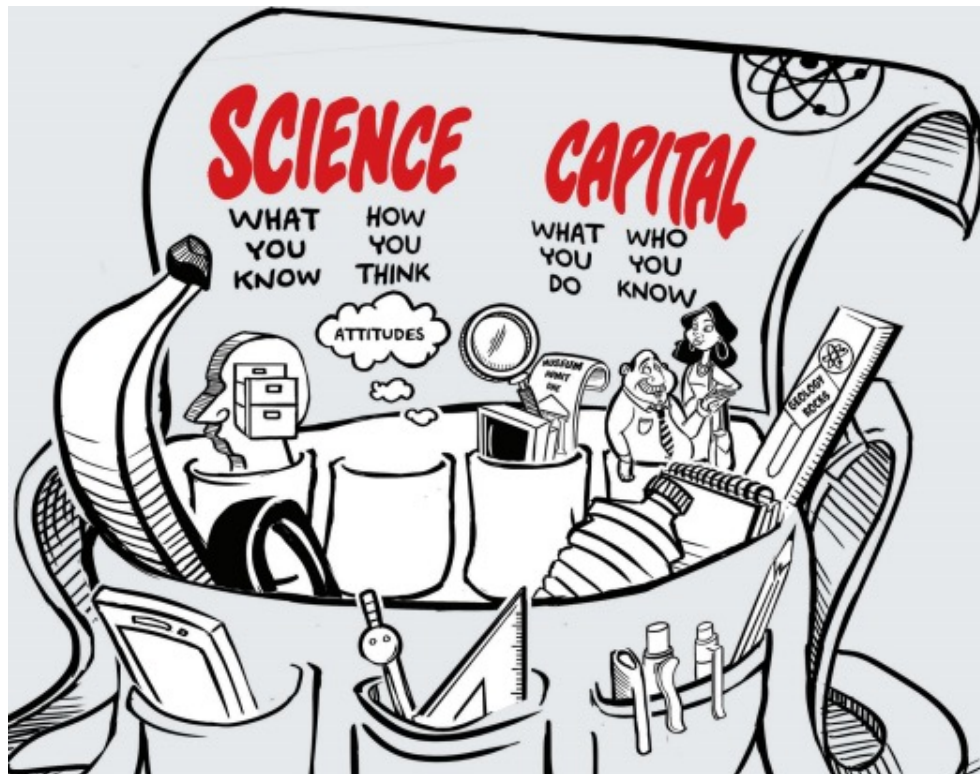
Our website

www.stemeducationhub.co.uk

Girls in STEM: Shaping Future Scientists took place last Thursday evening





Roundtable on Science Capital



Seminar on environmental and sustainability education





Current
challenges of
our STEM
Education
Hub: funding

Our email
STEMEducationhub@kcl.ac.uk



SCIENCE

Science education in England and in Brazil



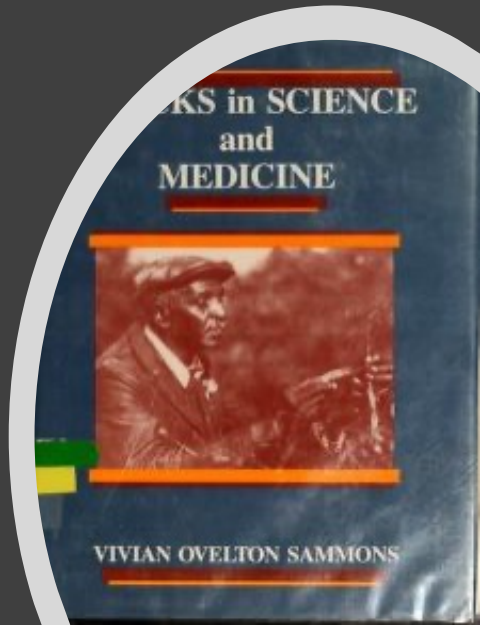
Scientific
processes



Scientific
products



Decolonisation of the science curriculum



Curriculum structure
and teacher education
in England and in
Brazil



BRITISH
COUNCIL



EDUCAÇÃO NA INGLATERRA

FORMAÇÃO DE PROFESSORES, CARREIRA DOCENTE E ENSINO DE CIÊNCIAS

Arthur
Galamba

Roussel de
Carvalho

	Age	Year	Key stages	Assessment
Early Years Education	3 to 4	Nursery	Early years	
	4 to 5	Reception	Early years	Teacher assessments
Primary Education	5 to 6	Year 1	KS1	Phonics screening check
	6 to 7	Year 2	KS1	SATS in English, maths and science
	7 to 8	Year 3	KS2	
	8 to 9	Year 4	KS2	
	9 to 10	Year 5	KS2	
	10 to 11	Year 6	KS2	SATS in English, maths and science
Secondary Education	11 to 12	Year 7	KS3	
	12 to 13	Year 8	KS3	
	13 to 14	Year 9	KS3	
	14 to 15	Year 10	KS4	GCSEs
	15 to 16	Year 11	KS4	
Further Education	16 to 17	Year 12	KS5	
Further Education	17 to 18		KS5	A-Levels, BTECs or other vocational qualifications

Compulsory subjects compared across 24 countries (upper secondary level)

Country/State	First language is compulsory	Mathematics is compulsory	A second language is compulsory	Science is compulsory	One or more other subjects is compulsory
British Columbia (Canada)	✓	✓	✓	✓	✓
Czech Republic	✓	◻	◻	—	—
Estonia	✓	✓	✓	✓	✓
Finland	✓	✓	✓	✓	✓
France					

The Royal Society argue

“If we want our young people to be able to succeed in a changing workplace, we need to make sure our schools and colleges are teaching them the knowledge and skills they will need. This should include the opportunity to study a wide range of subjects to 18, and to develop valuable transferable skills such as communication, problem solving, and team work.”

Rhineland-Palatinate (Germany)	✓	✓	✓	✓	✓
Russia	✓	✓	✓	✓	✓
Singapore	—	◻	—	◻	✓
Spain	✓	✓	✓	✓	✓
Sweden	✓	✓	✓	✓	✓
Taiwan	✓	✓	✓	✓	✓
England	NO COMPULSORY SUBJECTS				
Scotland					
Wales					
Northern Ireland					

THE REFORM OF HIGH-SCHOOL EDUCATION IN BRAZIL: A KAFKIAN METAMORPHOSIS?

BY ARTHUR GALAMBA, GLAUCO S. F. SILVA AND ANDRÉ MACHADO RODRIGUES



The PGCE and
Teacher
education in
England

QTS

Qualified Teacher Status

Licensed by



National College for
Teaching & Leadership

“I want us to build on the strengths and reputation of our domestic teacher training and create a new qualification, based on English standards and methods, which could be achieved in countries across the world. Our ambition is that this would give teachers around the world the opportunity to train to high standards and demonstrate their readiness to work in a range of schools worldwide.”

“The government set its ambition to grow exports as a share of GDP from 30% to 35% in the 2018 Export Strategy. This International Education Strategy sets out how the education sector can help contribute towards this ambition. Since 2013 a rapidly growing global education market has created strong competition from other countries around the world.”

iQTS – international teaching qualification





Thank you