Setting the scene:

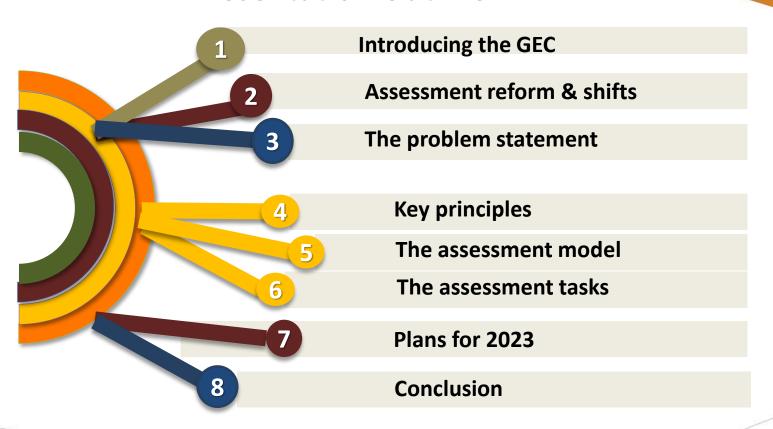
The holistic GEC Assessment Model

National Training Workshop

25 June 2022



Presentation Outline







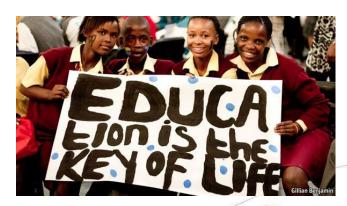
What is the GEC?





Working definition

It is an assessment programme based on the teaching and learning of skills over 10 years aimed at advancing general education further for a brighter future for 21st-century learners.







2. Why do we need a holistic model?- Assessment reform





It is trust issues that makes us write exams. You have taught me, I have learnt. Why can't we just move on?



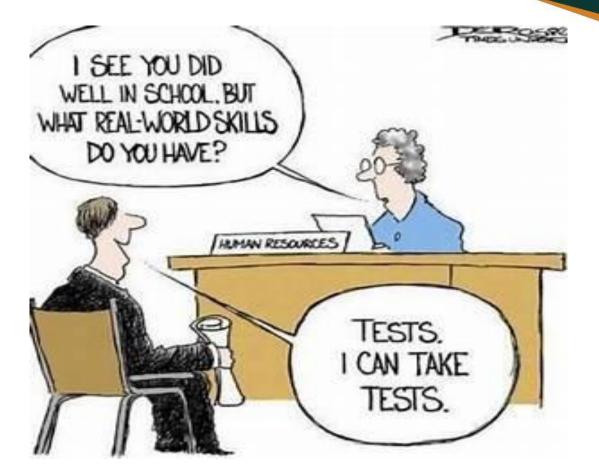




Reason 1





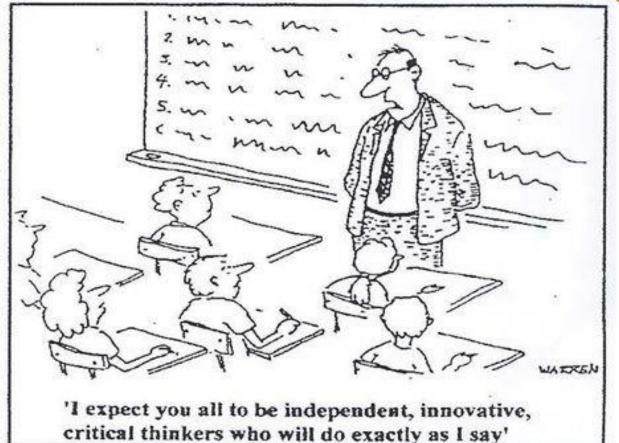








Reason 3



critical thinkers who will do exactly as I say'





"Logic is not always logical"

 $3 \times 10 \neq 10 \times 3$

Taking 3 tablets per day for 10 days is not the same as taking 10 tablets per day for 3 days.

Context on pre-defined norms matters:



Reason 4



Reason 5

Context for change

The fast changing 21st century Recurriculate and curriculum strengthening

A new breadth of skills

Learning progression & Learning pathways

Assessment for learning





3. What problem are we trying to solve?





What is the broad problem statement?

 Lack of learning opportunities for the poor and marginalized leading to: high dropout (at Gr. 9) & high unemployment (post school)

What can we do?

- 1) Re-define teaching and learning outcomes
- 2) Re-skill for 21st century
- 3) Re-focus teacher professional development
- 4) Re-engineer learning pathways
- 5) Reform the current assessment regime



The future of work

- We are currently educating for jobs of the past.
- We teach to jobs of the past.
- What is needed is less subject knowledge but skills of problem solving and thinking – digital skills.
- We are not showing learners the world of the future there is a growing disconnect.
- We are still teaching 19th century mastery of existing or past knowledge – we are not teaching learners to construct knowledge (which they are faced with increasingly in their everyday life). Learners are taught to be passive recipients of knowledge – don't know how to take action to do something with knowledge. We don't give learners agency to change their future.
- Teachers of tomorrow will need to adapt their pedagogies to reflect new global and local needs of societies. Culture is developed from education
- We need to embed values and attitudes in our curriculum design.







Expanding the breadth of skills in GET

An expanded Breadth of skills (Save the children/JET/Brookings Institute/Future Wise)

- a) 21st century skills:
- 1. Critical thinking
- 2. Communication
- 3. Collaboration
- 4. Creativity
- 5. Cognition (meta)
- b) Basic skills: Foundation phase
- Literacy
- 2. Numeracy
- 3. Digital
- c) Subject knowledge skills: (Intermediate and Senior phases)
- 1. Fundamentals
- Electives
- d) Socio-emotional skills: Inclinations assessment
- 1. What are your talents?
- What kind of worker are you?
- 3. What can you do with your talents?





Broad goals of the GEC

To:

- Recognise the holistic skill-set for learners over schooling in GET.
- Set an appropriate curriculum standards to be achieved at the end of Grade 9.
- Enable learners to access further education streams linked to 3stream model.
- Integrate and facilitate the assessment of 21st century skills (critical thinking; creative thinking; collaboration; and communication; digital literacy, self-knowledge, constructing knowledge).
- To award learners a report card/certificate that reflects the skills, talents and competencies that will be inclusive to all learners and assist them transition from school to work or further education.





4. What key principles are we advocating?





Principle 1: Promote Inclusivity

We are working towards an inclusive model.

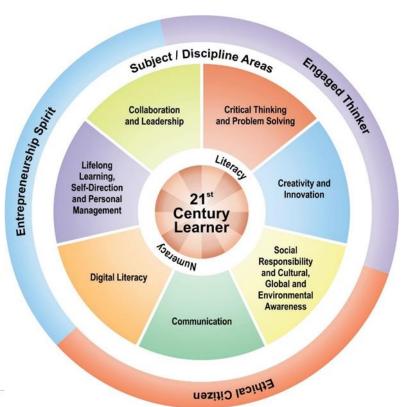


- Establishing an education and training system for the 21st century that values human dignity and ensure that all learners, with and without disabilities, pursue their learning potential to the fullest (DBE White Paper 6/2001).
- All learners whether in mainstream or special schools are capable of something and this needs to be recognized at the end of GET.





Principal 2: Infuse 21st Century skills



SA infusing:

- Critical thinking
- 2. Communication
- 3. Creativity
- 4. Collaboration
- 5. Cognition (meta)





Principle 3: Apply differentiation

- The GEC must as far as possible be <u>seamlessly implemented at school level</u> (so there will be differentiation in assessment forms linked to a common programme of assessment).
- There must be some minimum norms/standards linked to expected curriculum skills (CAPS or differentiated curriculum) but gradually shifting from norm referenced testing to criterion referenced testing and performance levels.
- Standardisation will come in with common assessment tasks (e.g. integrated projects/ end of year tests) where relevant or suitable to do so.
- The assessment frameworks must be able to work in different school settings.





Principal 4: Broaden the assessment landscape

Current emphasis

Subject-specific skills and capabilities assessed through end of year tests

- Languages
- Mathematics
- Life orientation
- Economics and management sciences
- Social sciences
- Natural sciences
- Technology
- Creative arts
- Occupational Subjects

Fundamentals

Core

Electives

New added emphasis is on assessing 21C skills

- Metacognition
- · Critical thinking
- · Creative thinking
- Collaboration
- Communication

Broader learner skills and capabilities

- Leadership Initiative
- Working with others
- Persistence
- Planning
- Concern for others
- Enterprise

Inclinations & Talents





5. What model are we mediating?





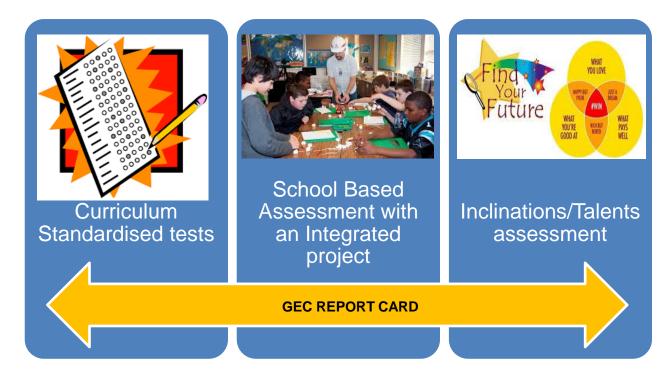
The GEC Assessment Model:







An integrated assessment report card

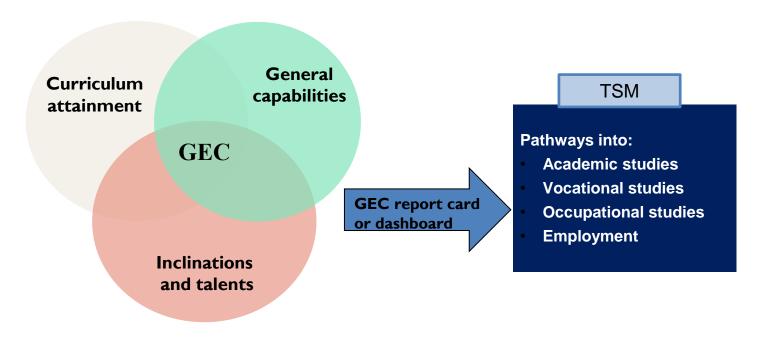






21st Century Assessment

Holistically assessing learners







6. What are we researching (2021-2022)?





GEC Pilot Study – Research Questions

What are we researching?

- 1. To what extent will the DBE be able to implement the GEC model in the South African context (Can the pilot study model be upscaled w.r.t administration of the GEC)?
- 2. How will learners perform in the different components of the GEC assessment model: SBA (and Integrated Project), Curriculum benchmark tests and Inclinations (How can we generate a holistic dashboard)?
- 3. Were the assessment tasks suitable in terms of key design features and whether learners were disadvantaged?
- 4. What is the quality of marking of marking of the GEC curriculum tests and Integrated projects (How do quality assure internal school processes with a view to moving from externally set tests to internally set tests)?

Based on these research questions, what are the recommendations needed to be taken in consideration to ensure a successful implementation of the GEC model in SA



2.1 The 2021 Pilot Study

The small-scale pilot in 2021 gave the GEC an opportunity for rich and deep learnings.

Some key points for the 2022 roll out include:

Ensure clear communication, advocacy around time frames and pilot objectives.

Teachers require timely access to rubrics and exemplars to support their understanding and application of training.

Institutionalised support for low-tech solutions is required for success.

Schools want to use the marks for promotion.

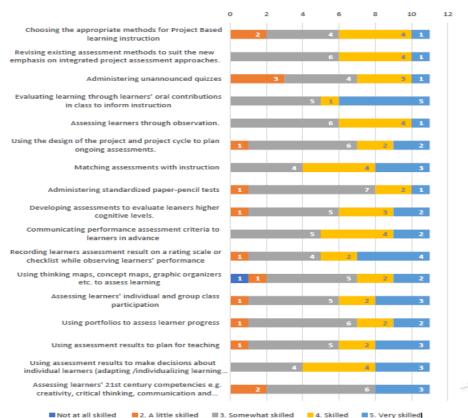
Amendments need to be made on SA-SAMS for extracting the data.

A GEC system is needed for data integration.

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FIGURE 10: RESPONDENT PERCEPTION OF THEIR LEVEL OF SKILL WITH ADMINISTERING DIFFERENT TYPES OF ASSESSMENTS





The 2022 pilot study

In 2022, the sample for the field trial has increased to 277 schools, representative of the types of schools across all 9 Provinces (approximately 29 schools per province). The table below is a high-level summary of the GEC roll out in 2022

Advocacy

Sample for PEDs have been sent through a DG letter to the HoD

GEC advocacy will run throughout the trial, starting at the beginning of Term 2.

Training (in Term 2)

NB Dates

Province & District Officials:

May Workshop: 20-22

Teacher Training: May- June

Sector Workshop: 22-23 July

Integrated Project & Inclinations Assessment (in Term 3)

NB Dates

Midline reflection session: wc 15 August

Focus Groups: 29 Aug

5 Sep

School Visits

Curriculum Tests (in Term 4)

NB Dates

Endline reflection session: 3 October

Project Summit: December

All monitored by an online dashboard, in-person visits and a final evaluation report.

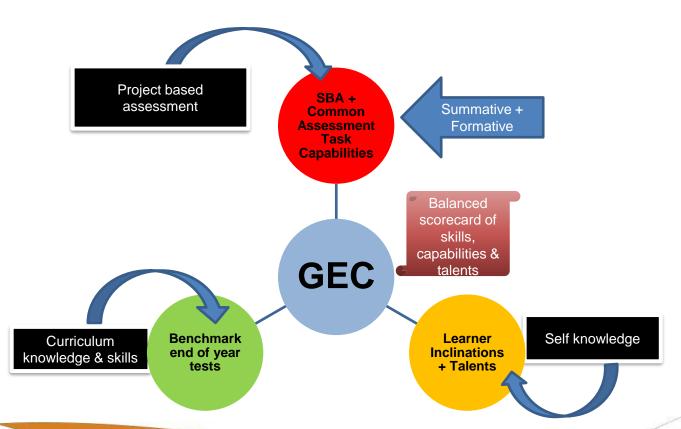


Continuous Support





Assessment forms







Programme of Assessment Gr 9 requirements - ATP

Subject	Term 1 Tasks	Term 2 Tasks	Term	3 Tasks	Term 4 Tasks			
Home Language First additional Language		2 Tasks + Controlled test	3 Tasks + (1 task		2 tasks + Controlled test			
Mathematics	1 Task 1 Test	1 Task + 1 Controlled Test	1 Task 1 Test	Project – cross cutting theme; subject	Controlled test	Externally set in identified		
Natural Sciences	1 Task 1 Test	1 Task+ 1 Controlled Test	1 Task 1 Test	competencies + 21 st century skills	Controlled test	subjects		
Economic and Management Sciences	1 Task 1 Test	Controlled Test P1 & P2	1 Task		Controlled test P1 & P2			
		80%			20%			

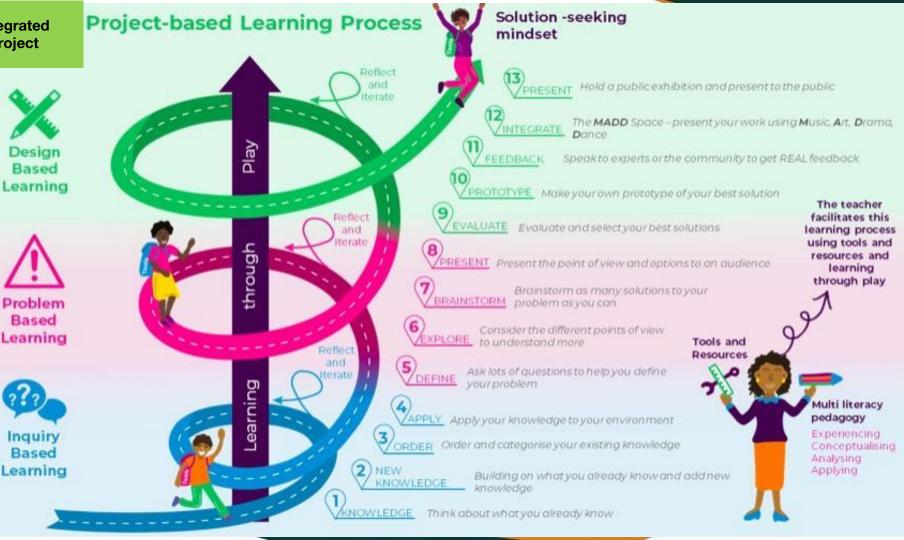
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Integrated **Project**



ENGLISH FAL (70)

- Literature **Project**
- Choose genre:
 Business
 Plan/Report writing
- S1: Research topic
- S2: Writing
- S3: Presenting

MUSIC (50)

- Create an advertisement for a product or event OR
- Own lyrics/music
- Practical performance

DANCE (50)

- Warm-up, low brush, high brushes, kicks
- Composition movement sequence

SOCIAL SCIENCES PROJECT (50)

- Research Apartheid laws (business and careers)
- Write Report and
- Present oral

LIFE ORIENTATION (70)

- Entrepreneurship as a possible career choice
- Research 3 possible careers
- Write a report
- Present oral

OTHER

 Information Literacy: Researching, finding, selecting, organizing and presenting information

EMS PROJECT (70)

- Research volunteer/ business opportunities
- Create a business plan
- Present to investors/sponsors
- SWOT analysis, 8 business functions

DRAMA (50)

- Relaxation, breathing, tone, articulation, projection
- Create advertisement OR
- Classroom improvised drama

VISUAL ARTS (50)

- Create 2D flyer/leaflet/poster
- Create 3D model of puppet 2 making commentary

Integrated Project













Integrated Maps – 21c

Map 1: 21st Cent	ury Skills	development	Integrat	ted Map: F	Project 1	(LO anchor)					
Subjects:	Languag	g Economic Socia		cial Creative		Life					
	е	Manageme Scie		es Arts		Orientation					
		nt Sciences	(History	y)							
Critical			•								
thinking		Map 2: 21 st Ce	entury S	kills deve	lopmen	t Integrated I	Map: Pro	ject 2	(MST)		
Communicatio	•	Subjects:		Mathematics		Natural Sciences		Technology			
n		Critical thinki	na	•							
Creativity		Critical trilliking		Ť							
Collaboration		Communication						•			
Metacognition		Creativity				•					
		Collaboration			Man 1	2: Combinati	on Man	21st Century Skills			
		Metacognitio	n	•	IVIAD .	3. Combinati	Project		Project 2	Subtotal	
					Critic	al thinking	SS		Math	5 + 5	
						munication			Tech	5+5	
				Creativity		Lang Tech ARTS NS		5+5			
						EMS Tech		5+5			
								LO Maths			
Total								5 + 5 50			





Assessing 21st century skills/General Capabilities

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	3. Creativity: (Creative thinking is defined as the ability to come up with many different ideas and apply them to find realistic solutions to problems. There are two important aspects to creative thinking:	ARTS			NS			Total	
,reativ <i>it</i> √		3.1 Good at generating ideas	Y 1	N	3.1 Good at generating ideas (circuit design)	Y	N 0		
		3.2 Knows how to consider and evaluate best ideas	Y	N 0	3.2 Knows how to consider and evaluate best ideas	Y	N 0	Criti Co	
	Originality and usefulness)	3.3 Can manipulate ideas to fit the setting	Y	N 0	3.3 Can manipulate ideas to fit the setting	Y 1	N	CO	
		3.4 Ideas are original	Y	N 0	3.4 Ideas are realistic	Y	N 0	-	
		3.5 Ideas are useful and relevant	Y 1	N	3.5 Ideas are relevant to solving the problem	Υ	N 0		
				<u> </u>				3 /10	

Scoring Rubric 21st Century Skills

2/5

thinking munication ollaboration ollaboratio

Read to Lead

1/5

Curriculum Tests

- Tests are set in terms of content prescribed in the Annual Teaching Plans.
- One question paper per subject (EMS (P2) & Maths (P2) set at school)
- 80%/20% Multiple Choice Question to Open ended/structured responses
- Setting completed and final QA is underway

For the pilot, there have been printed by DBE, but in 2023 will have to be printed at school level







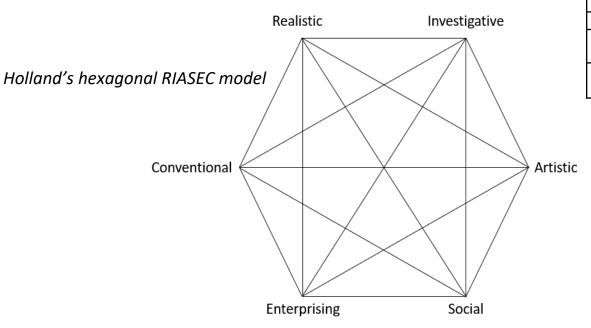
Test frameworks

- Each panel develops a test specification framework for its own subject
 ..\..\Documents\DBE DOCUMENTS\NA 2021\GEC\GEC preps\Frameworks\Mathematics

 Framework.doc
- Why: to plan, allocate and distribute the content, skills, cognitive and difficulty levels as well as mark allocation
- The framework allows the examiners to set the test according to the agreed framework
- It is also used as a tool to moderate the test against
- Versioning panels adapt the framework's content to suit their language ATPs/CAPS before versioning takes place. Skills assessed must still match the test blueprints as far as possible especially for Languages.







DOTS model - Watts (2006).

Student Self-Directed Search - (Holland, 1997; PAR, 2020).

Career Interest Test – (Athanasou, 2002; Bartlett et al., 2016)

Work personality index 2nd edition – Macnab and Bakker (2014)

Career Values Scales - Macnab et al. (2003).







Stakeholder workshops

- Training of provincial officials took place in May 2022.
- 2 Sector workshops have been held in July 2021 and July 2022 (last weekend) to solicit input on from a wide range of stakeholders on the GEC policy and process matters.
- Technical working group meetings are held weekly as well as focus group sessions.
- The DBE has partnered with E-cubed & Head Start (locally) and ACER (internationally) for technical support and international scoping around the GEC. Working towards a TAG.
- Some key recommendations/inputs will be factored into draft policy as well as serve as a springboard for further engagement.



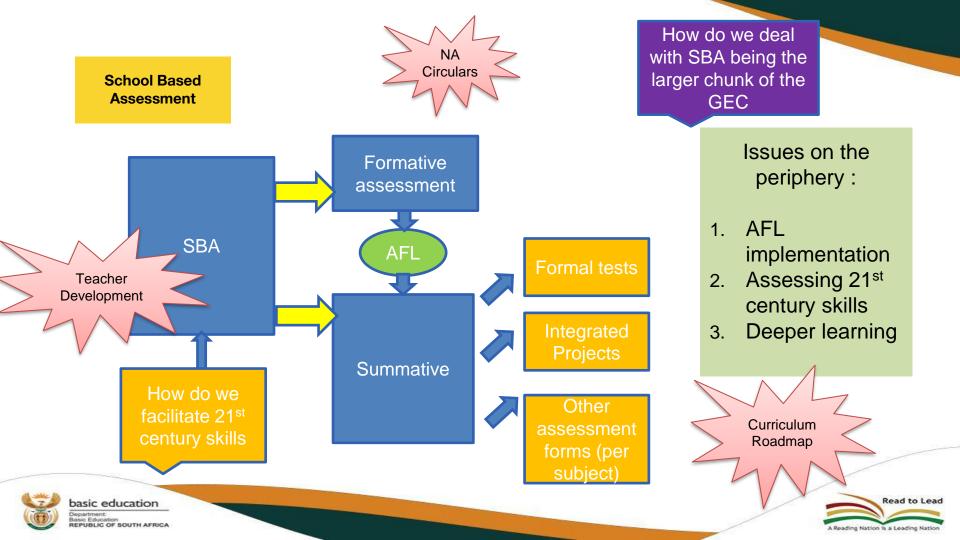


Stakeholder inputs

- a) Change in terms of the South African schooling system, with particular focus on modernizing the curriculum (curriculum policy, teaching, learning and assessment) is urgently required. This will inform the form and structure of the GEC.
- b) The GEC model must be context related and relevant to the SA challenges.
- c) The Curriculum Roadmap and Curriculum Strenghening must be expedited given that the form and structure of the GEC is dependent on the curriculum review process.
- d) The primary focus of the GEC is not on the issuing of the certificate but on getting teaching, learning and assessment right. The certificate/report card that is finally issued, must confirm that the learner demonstrates the knowledge, skills, values, attitudes and character attributes envisaged of a Grade 9 learner.
- e) The assessment must focus on learning (what learners can know and can do) and not on scores that are used for ranking purposes (performativity culture).
- f) The Department must expedite the implementation of the Three Streams Model, with particular reference to the Vocational and Occupational Stream. The GEC should be seen as an enabling programme that precedes and provides useful information to learners and parents and to inform potential selection of pathways.







7. What are the plans for 2023 & beyond?





What is planned for 2023?

In 2023, the sample for the field trial will increase 277 schools (approximately 30 schools per province) to 1000 schools, representative of the types of schools across all 9 Provinces The table below is a high-level summary of the GEC roll out in 2022

Advocacy & release of 2022 Pilot Study report

Training (in Term 2)

Implementing
Integrated Project
and Inclinations
Assessment
(in Term 3)

Implementing Curriculum Tests (in Term 4)

Continuous support to teachers with repeated cycles

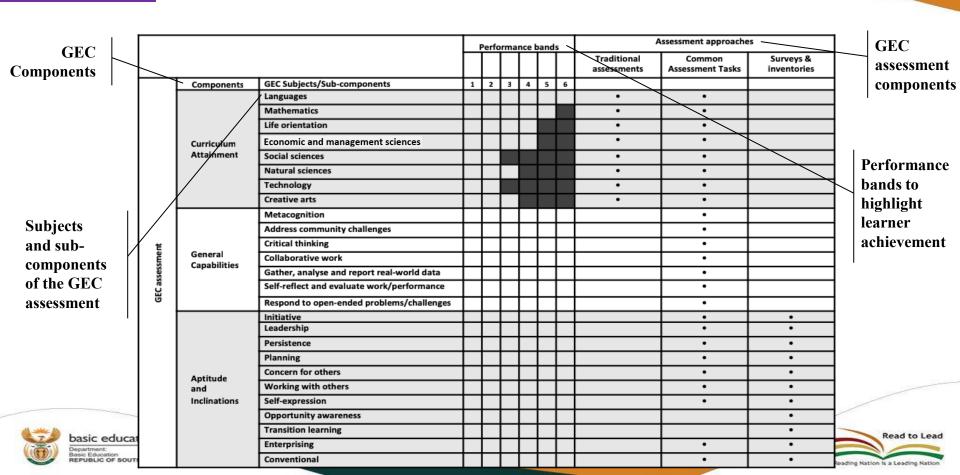
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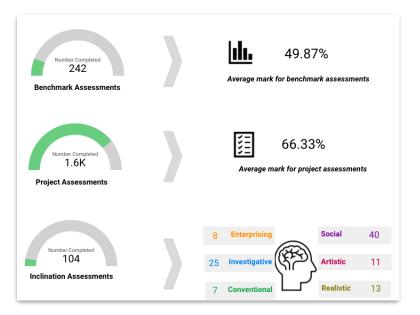




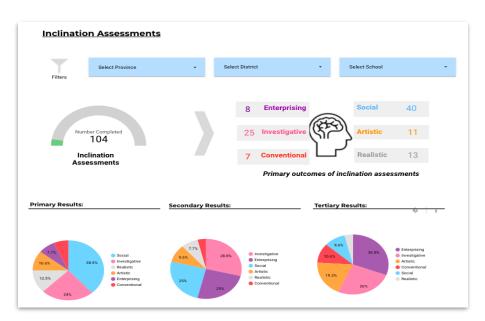
GEC Reporting Framework



Innovation in Reporting



Draft version of an overview of an online school report.



Draft version of an overview of the online system report.





Policy & documentation

Activity	2021	2022	2023	2024	2025
Policy (qualification)	 Draft policy gazette for public comment GEC sector Lekgotla 	 Infusion of public comments and Lekgotla recommendations infused into policy framework. Sector workshop undertaken in July 2022– further inputs onto policy 	Policy approval, advocacy and dissemination	Policy implementation	Policy implementation

The intention is to have the following documents finalised:

- 1. The GEC policy
- 2. The GEC conceptual framework
- 3. The GEC theory of change document





Timelines on implementation

Activity	2021	2022	2023	2024	2025
Curriculum	Alignment to Recovery ATPs	Alignment to Recovery ATPs	Alignment to Recovery ATPs	Alignment to modernised Curriculum	Alignment and implementation to a modernised Curriculum
Assessment	Sample: Small- scale pilot	Sample: Representative field trial (277 schools)	Sample: Expanded field trial of 1000 schools + schools of skill (cover all districts)	Target: Extend the sample to almost 3000 schools + special schools	Target all schools (full-scale administration)







2023 Sampled GEC Schools

Province	Sampled Schools (Mainstream + SOS)	School of Skills
Eastern Cape	100	3
Free State	85	7
Gauteng	137	44
KwaZulu Natal	167	4
Limpopo	148	27
Mpumalanga	89	5
Northern Cape	93	2
North West	85	5
Western Cape	96	22 (*Category A & C)
Total	1000	110* - some are part of the 1000.

A Reading Nation is a Leading Nation

8. Conclusion





Some necessary support structures

- Provincial training workshops coordinated by provincial and district teams.
- Public-private partnerships to support research, analysis, digitisation, material development, teacher development & support, and broader advocacy.
- Further guidance on a differentiated approach towards assessing learners (mainstream/special/schools of skill).
- Pre-service and in-service training of teachers that takes into account pedagogical shifts in assessment and new approaches featuring in the GEC.
- Further development of hosting systems & resource platforms.





Focus of commissions

- 1. SBA integration & quality assurance
- Teacher development model
- 3. Provincial & district support institutionalizing the GEC
- Inclusive education development of frameworks, accommodations and concessions





Success Indicators

- All participating schools trained by provincial training teams.
- 2. School coordinate and implement the GEC model.
- 3. GEC assessment & SBA models integrated.
- 4. GEC assessment data uploaded onto SA-SAMS and data platforms.
- 5. Sample provincial & national moderation done.
- 6. GEC national report on 2023 pilot study complete.









