

South Africa - Early Learning Outcomes Measure 2019, Grade R Assessment

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Identification

SURVEY ID NUMBER

zaf-ie-elom-2019-v1

TITLE

Early Learning Outcomes Measure 2019, Grade R Assessment

SUBTITLE

Grade R Assessment

COUNTRY

Name	Country code
South Africa	zaf

STUDY TYPE

Child Assessment Survey

ABSTRACT

The 2019 ELOM data was collected with the ELOM set of tools on children who have been exposed to Grade R education. Prior to the development of the ELOM, there was no validated South African instrument for measuring programme performance against Early Learning Development Standards. The ELOM is an age-normed, standardised instrument for use with children in two age groups: 50-59 months and 60-69 months. The ELOM includes both direct assessment of children's performance as well as an assessment of the child's social and emotional functioning and orientation to tasks. The ELOM Direct Assessment consists of 23 items measuring indicators of the child's early development in five domains:

Gross Motor Development
 Fine Motor Coordination and Visual Motor Integration
 Emergent Numeracy and Mathematics
 Cognition and Executive Functioning
 Emergent Literacy and Language

The 2016 ELOM data was used to standardise the ELOM tool as age-validated on a sample that is very likely to be representative of the range of socio-economic backgrounds of South African children and for children speaking different languages. The 2018 data collection was also an assessment of the ELOM programme. The 2019 ELOM study used the ELOM score to monitor trends over time in the proportion of children aged 4 to 6 years who were on track for age in key areas of development. The variable "Programme year" in the 2019 round of data represents how long the child has been in the programme (or school).

KIND OF DATA

Other

UNIT OF ANALYSIS

Individuals and institutions

Version

VERSION DESCRIPTION

v1: Edited, anonymised data for public distribution

VERSION DATE

2020-06-30

Scope

NOTES

The dataset includes data on the child's school: School setting (province, rural/urban, traditional), school quintile, and school name. Data on each child includes the child's age, home language, height, and child performance scores collected using the Early Learning Outcomes Measure (ELOM) set of tools.

KEYWORDS

Keyword
Early child development
Early learning

Coverage

GEOGRAPHIC COVERAGE

The assessment was undertaken in schools in the , Eastern Cap,e KwaZulu-Natal, North West, and Western Cape provinces of South Africa.

GEOGRAPHIC UNIT

The lowest level of geographic aggregation in the data is district municipality.

UNIVERSE

The assessment focused on children between the ages of 49-69 months in the selected schools.

Producers and sponsors

PRIMARY INVESTIGATORS

PRODUCERS

FUNDING AGENCY/SPONSOR

Name	Role
D.G. Murray Trust	Funder
First National Bank	Funder

Data Collection

DATES OF DATA COLLECTION

Start	End
2019	2019

DATA COLLECTION MODE

Other [oth]

DATA COLLECTION NOTES

Ideally data should have been collected in January/February 2019, at the start of the Grade R year and before children are exposed to the Grade R curriculum. However, final sign-off from the sponsor was only obtained at the end of February 2019. This delayed the start of the data collection process and children who participated in this study had already been exposed to one full term of Grade R. This is likely to have influenced child outcomes.

DATA COLLECTORS

Name
Innovation Edge

Questionnaires

QUESTIONNAIRES

Data was collected using the Early Learning Outcomes Measure (ELOM) tool which includes the following components: ELOM Direct Assessment Kit, ELOM Direct Assessment Kit list, ELOM Direct Assessment Manual, ELOM Technical Manual, ELOM Scoring Sheet, Open source online protocol for tablet/phone-based scoring and data capture, ELOM Teacher Assessment of the Child.

Data Appraisal

DATA APPRAISAL

A similar set of data was collected by Innovation Edge for the standardisation of ELOM in 2016. However, it is not advised that researchers compare results from the 2016 dataset with the 2019 data. The 2016 sample has no Grade R exposure. In all cases where performance is interpreted in 2019, this must be interpreted as the performance of children after receiving approximately 1 to 1.5 terms of Grade R (although recent evidence indicates that only children in Quintiles 4 and 5 schools benefit from their Grade R year).

Access policy

CONTACTS

Name	Affiliation	Email	URL
DataFirst Support Site	UCT	support@data1st.org	www.support.data1st.org

ACCESS CONDITIONS

Public access data for use under a Creative Commons CC-BY (Attribution-only) License

CITATION REQUIREMENTS

Innovation Edge. Early Learning Outcomes Measure 2019, Grade R Assessment [dataset]. Version 1. Cape Town: Innovation Edge [producer], 2020. Cape Town: DataFirst [distributor], 2020. DOI: <https://doi.org/10.25828/xehh-jk85>

ACCESS AUTHORITY

Name	Affiliation	Email	URL
DataFirst	University of Cape Town	support@data1st.org	www.support.data1st.org

Metadata production

PRODUCERS

Name	Affiliation	Role
DataFirst	University of Cape Town	Metadata producer

DATE OF METADATA PRODUCTION

2024-05-31

DDI DOCUMENT VERSION

Version 3

Data Description

Data file	Cases	Variables
elom-grade-r-2019-v1	0	54

Data file: elom-grade-r-2019-v1

Cases: 0

Variables: 54

Variables

ID	Name	Label	Question
V1	csid	Child study ID	
V2	Province	Province	
V3	SchoolID	School ID	
V4	RuralOrUrbanDistance	Rural status by distance	
V5	RuralOrUrbanCensus	Rural status by census	
V6	Quintile	School quintile	
V7	CompositeQuintileGroup	Three quintile groupings	
V8	District	District	
V9	Gender	Gender of child	
V10	Age	Age in months	
V11	AgeGroup	Age group	
V12	HomeLanguage	Home language	
V13	AssesLanguage	Assessment language	
V14	Height	Height in cm	
V15	hfa	Height for age z-score	
V16	ChildSupportGrant	Child Support Grant	
V17	ProgrammeYear	Programme Year	
V18	Item1	Standing Transformed	
V19	Item2	BB BH Transformed	
V20	Item3	BB DH Transformed	
V21	Item4	BB OH Transformed	
V22	gmd	Gross Motor Development	
V23	Item5	Cross & Square Transformed	
V24	Item6	Triangle Transformed	
V25	Item7	Draw Person Transformed	
V26	Item8	String Beads Transformed	
V27	fmcvmi	Fine Motor Control & Visual Motor Integration	
V28	Item9	Counting Transformed	
V29	Item10	Add & Sub Transformed	
V30	Item11	Sort and Class Transformed	
V31	Item12	Spacial Vocabulary Transformed	
V32	Item13	Measurement Vocabulary Transformed	
V33	enm	Emergent Numeracy & Mathematics	
V34	Item14	DCCS Transformed	
V35	Item15	Pencil Tapping Transformed	
V36	Item16	Digit Span Transformed	
V37	Item17	Picture Puzzle Transformed	
V38	cef	Cognition & Executive Functioning	

ID	Name	Label	Question
V39	Item18	Empathy Transformed	
V40	Item19	Self-Awareness Transformed	
V41	Item20	Expressive Language Transformed	
V42	Item21	Expressive Vocabulary Transformed	
V43	Item22	Oral Comprehension Transformed	
V44	Item23	Sound Discrimination Transformed	
V45	ell	Emergent Literacy & Language	
V46	total	ELOM Total Score	
V47	ChildObs1	Paid Attention	
V48	ChildObs2	Stayed Concentrated	
V49	ChildObs3	Careful and Diligent	
V50	ChildObs4	Interested and Curious	
V51	ChildObs	Child Observation Total	
V52	SelfCare	Self-Care	
V53	SocialRelations	Social Relations	
V54	EmotionalReadiness	Emotional Readiness for School	

Total: 54

CSID: Child study ID**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Width: 9 Range: - Format: character

AGE: Age in months**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 49.80328 - 71.934425 Format: Numeric

PROVINCE: Province**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	ec
2	kzn
3	nw
4	wc

SCHOOLID: School ID**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 4 Range: 1 - 1474 Format: Numeric

RURALORURBANDISTANCE: Rural status by distance**Data file: elom-grade-r-2019-v1**

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	Rural
2	Urban

RURALORURBANCENSUS: Rural status by census**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	Rural
2	Urban

QUINTILE: School quintile**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 5 Format: Numeric

COMPOSITEQUINTILEGROUP: Three quintile groupings**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	Quintile 1
2	Quintile 2 & 3
3	Quintile 4 & 5

DISTRICT: District**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 8 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	mthata
2	libode
3	umgungundlovu
4	ilembe
5	madibeng
6	rustenburg
7	overberg
8	CAPE WINELANDS

GENDER: Gender of child**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 1 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	Male
1	Female

AGEGROUP: Age group**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	50 to 59
2	60 to 69
3	70 to 72

HOMELANGUAGE: Home language**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	English
1	Afrikaans
2	Setswana
3	isiZulu
4	isiXhosa

ASSESLANGUAGE: Assessment language**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 4 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	English
1	Afrikaans
2	Setswana
3	isiZulu
4	isiXhosa

HEIGHT: Height in cm**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 92 - 137 Format: Numeric

HFA: Height for age z-score**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 5 Range: -4.12 - 4.83 Format: Numeric

CHILDSUPPORTGRANT: Child Support Grant**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	Yes
2	No
3	Do Not Know

PROGRAMMEYEAR: Programme Year**Data file:** elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 2 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	Do Not Know
1	1 Year in Programme
2	2 Years in Programme

ITEM1: Standing Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 2.9100001 Format: Numeric

ITEM2: BB BH Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 3.5899999 Format: Numeric

ITEM3: BB DH Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 6.3000002 Format: Numeric

ITEM4: BB OH Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 7.1999998 Format: Numeric

GMD: Gross Motor Development**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 20 Format: Numeric

ITEM5: Cross & Square Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 4.1999998 Format: Numeric

ITEM6: Triangle Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 4.5799999 Format: Numeric

ITEM7: Draw Person Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 4.7399998 Format: Numeric

ITEM8: String Beads Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 4 Range: 1 - 6.48 Format: Numeric

FMCVMI: Fine Motor Control & Visual Motor Integration**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 4 Range: 2.75 - 20 Format: Numeric

ITEM9: Counting Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 6.0300002 Format: Numeric

ITEM10: Add & Sub Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 4.5100002 Format: Numeric

ITEM11: Sort and Class Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 4.0100002 Format: Numeric

ITEM12: Spacial Vocabulary Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0
 Type: Continuous Decimal: 0 Width: 3 Range: 0 - 2.8 Format: Numeric

ITEM13: Measurement Vocabulary Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0
 Type: Continuous Decimal: 0 Width: 9 Range: 0 - 2.6500001 Format: Numeric

ENM: Emergent Numeracy & Mathematics**Data file: elom-grade-r-2019-v1**

Overview

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 1 - 20 Format: Numeric

ITEM14: DCCS Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 3.1099999 Format: Numeric

ITEM15: Pencil Tapping Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 6.7199998 Format: Numeric

ITEM16: Digit Span Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 4.0300002 Format: Numeric

ITEM17: Picture Puzzle Transformed**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 6.1399999 Format: Numeric

CEF: Cognition & Executive Functioning**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 20 Format: Numeric

ITEM18: Empathy Transformed**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 4 Range: 0 - 3.21 Format: Numeric

ITEM19: Self-Awareness Transformed**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 3.4200001 Format: Numeric

ITEM20: Expressive Language Transformed**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 3.4100001 Format: Numeric

ITEM21: Expressive Vocabulary Transformed**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 3.1700001 Format: Numeric

ITEM22: Oral Comprehension Transformed**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 0 - 3.0899999 Format: Numeric

ITEM23: Sound Discrimination Transformed**Data file:** elom-grade-r-2019-v1**Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 3 Range: 0 - 3.7 Format: Numeric

ELL: Emergent Literacy & Language**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 2 Range: 0 - 20 Format: Numeric

TOTAL: ELOM Total Score**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Continuous Decimal: 0 Width: 9 Range: 8.6000004 - 94.910004 Format: Numeric

CHILDOBS1: Paid Attention**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	Almost never
1	Sometimes
2	Often
3	Almost always

CHILDOBS2: Stayed Concentrated**Data file: elom-grade-r-2019-v1****Overview**

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	Almost never
1	Sometimes
2	Often
3	Almost always

CHILDOBS3: Careful and Diligent

Data file: elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	Almost never
1	Sometimes
2	Often
3	Almost always

CHILDOBS4: Interested and Curious

Data file: elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 0 - 3 Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
0	Almost never
1	Sometimes
2	Often
3	Almost always

CHILDOBS: Child Observation Total

Data file: elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 12 Format: Numeric

SELFCARE: Self-Care

Data file: elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 1 Range: 1 - 4 Format: Numeric

SOCIALRELATIONS: Social Relations

Data file: elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 6 - 24 Format: Numeric

EMOTIONALREADINESS: Emotional Readiness for School

Data file: elom-grade-r-2019-v1

Overview

Valid: 0 Invalid: 0

Type: Discrete Decimal: 0 Width: 2 Range: 0 - 12 Format: Numeric

Download related resources

Reports

The South African Early Years Index

Title	The South African Early Years Index
Date	2020
Country	South Africa
Language	English
Publisher(s)	Innovation Edge
Description	This is the report from the ELOM 2019 Study
Filename	elom-2019-report-v2.pdf

Other materials

Early Learning Outcomes Measure Technical Manual 2020

Title	Early Learning Outcomes Measure Technical Manual 2020
Author(s)	Dawes, A., Biersteker, L., Girdwood, E., Snelling, M.J.T.L., Tredoux, C.G.
Date	2020
Country	South Africa
Language	English
Publisher(s)	Innovation Edge
Description	This is the technical manual for users of the ELOM data
Filename	2020-elom-manual.pdf
