

National
Center for
Assessment



Education &
Training
Evaluation
Commission



National Center for Assessment (NCA): Saudi Arabia

Abdullah Alqataee, PhD
CEO



National Center for Assessment (NCA)

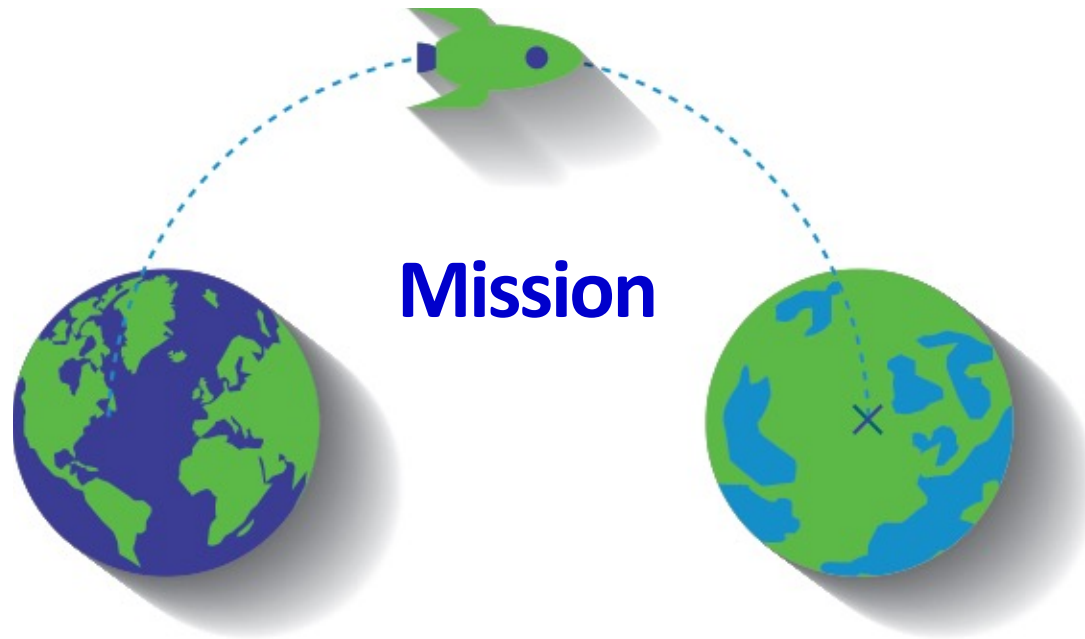
- The National Center for Assessment (established in 2001) is a Self-funding Governmental Institution Serving Education and Professions Through Assessment.
- Annually, NCA develops more than 200 different tests, and administers and scores around 3 million assessment tests, at more than 290 locations in Saudi Arabia and more than 20 locations worldwide.
- In addition to assessments, we conduct educational research, analysis and policy studies and develop a variety of customized services and products for various educational and professional bodies.



Vision

The Center aspires to be an International and a pioneering institution in the field of Assessment and measurement.

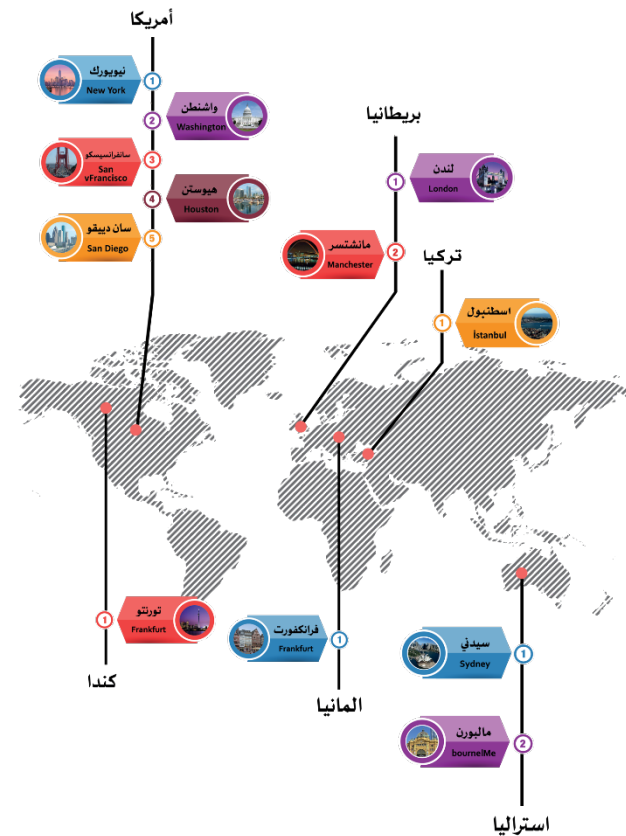




Provide complete assessment solutions that help in establishing fairness, equity and efficiency in Education and Professions.

National Center for Assessment (NCA)

- The Center began its computerized testing in 2013 with form-based delivery mode. Our intention is to have all our tests delivered in computerized mode through our computerized testing centers by the year 2021. Now, we have more than 100 computerized test centers. We monitor each one directly and have a very strict security measures.



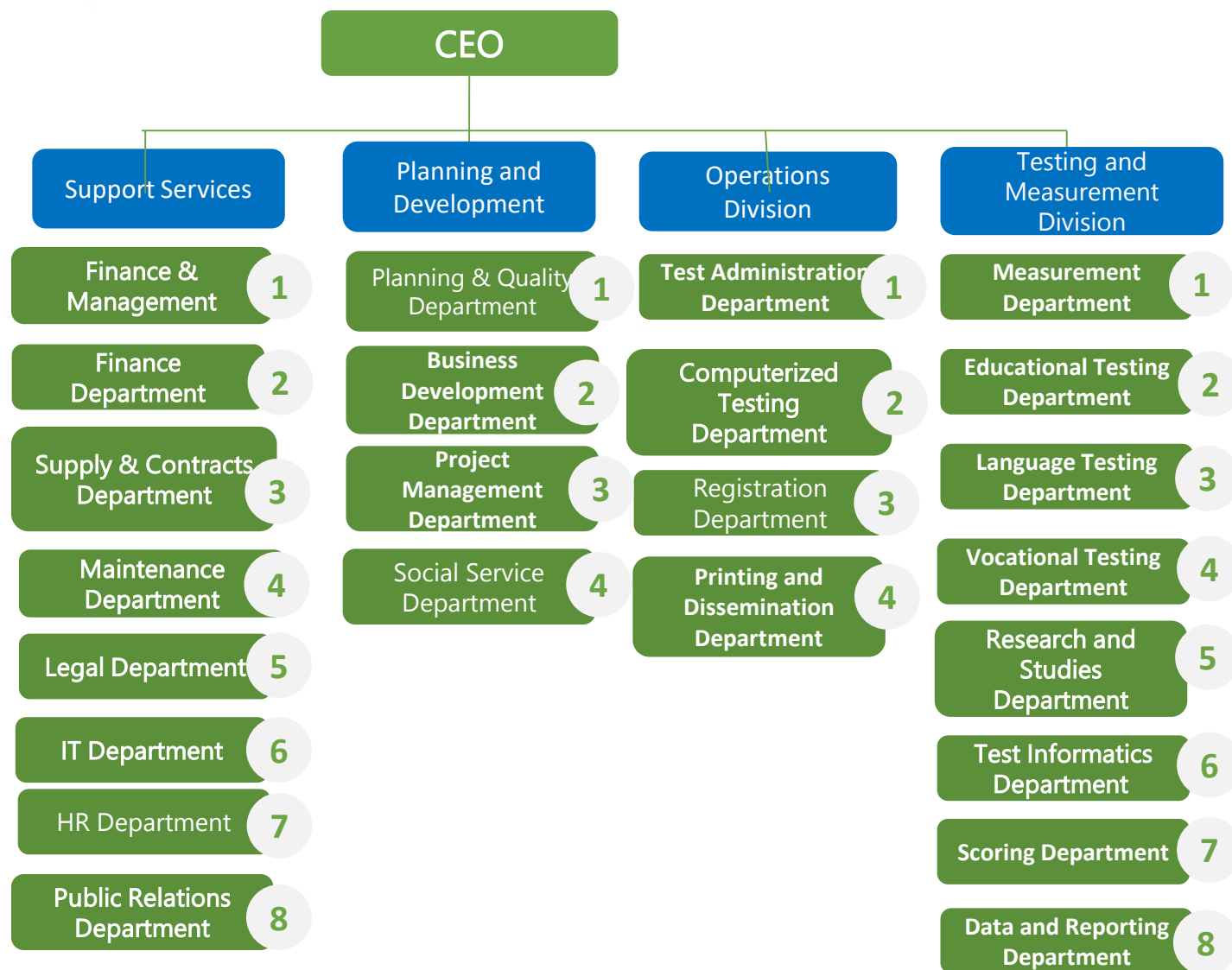


National Center for Assessment (NCA)

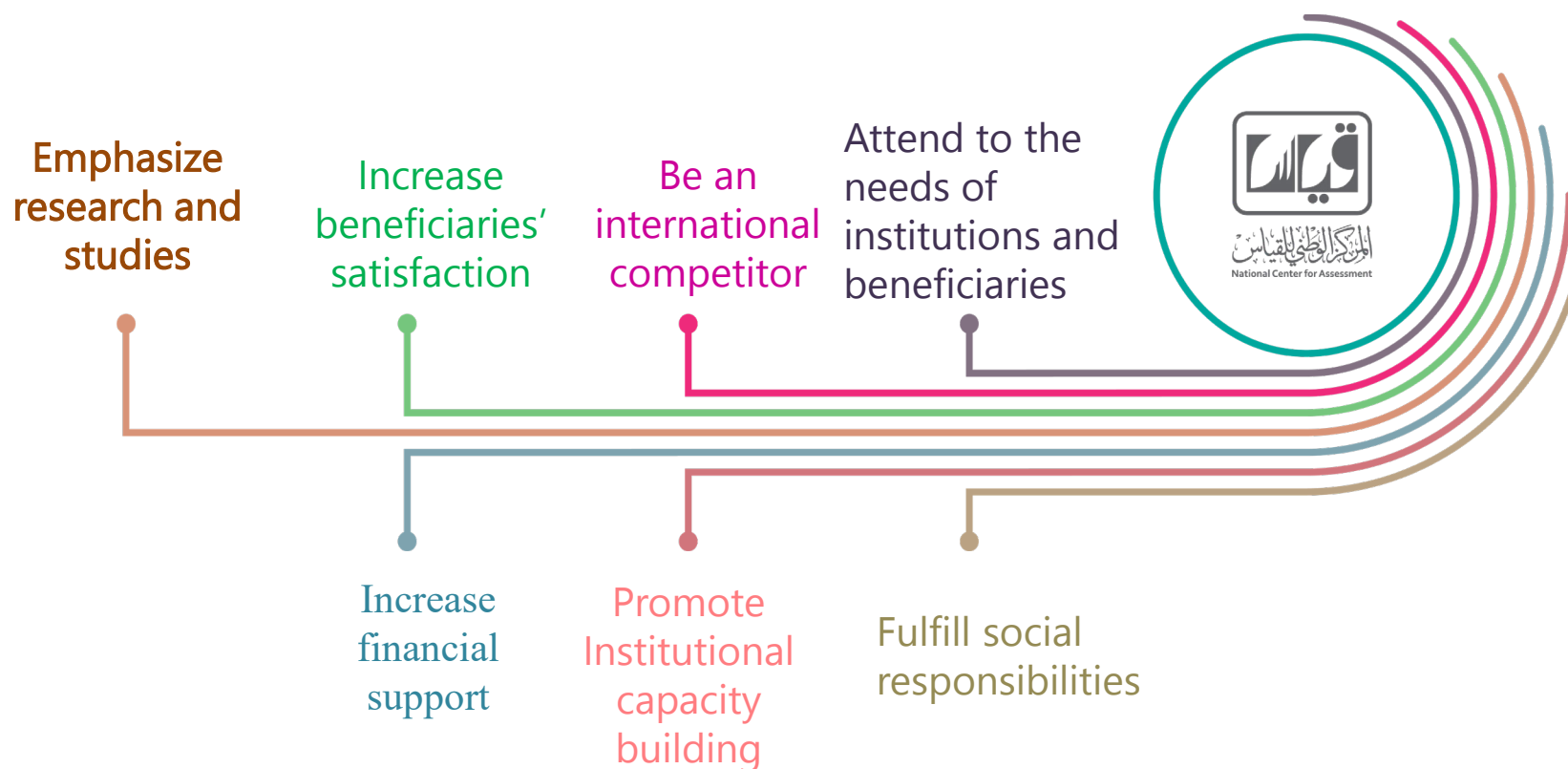
The Center has:

- 296 full-time employees.
- 9834 part-timers (proctors and item writers).
- 11 remote researchers.





Strategic Goals





Educational System in Saudi Arabia (basic Education)

(Public, Private, International)

School	Grades	Age	Years
Primary	1-6	6-11	6
Intermediate	7-9	12-14	3
Secondary	10-12	15-17	3



Educational System in Saudi Arabia (Tertiary Education)

(Public, Private)

Level/ Degree	Years
Technical or Vocational Institute Education	2-4
Undergraduate (Humanities and Social Sciences)	4
Undergraduate (Science, Medical Fields, Pharmacy Engineering, computer Science, ...etc.)	6
Master's (Humanities or Science)	2-3
Doctorate (Humanities or Science)	3-5

Tests Domain



☐ Admission Tests:

- ✓ General Aptitude Test (GAT)
- ✓ Standardized Admission Achievement Test (SAAT)
- ✓ Post Graduate Ability Test (PGAT)

- ☐ University Outcome Exams
- ☐ GAT Junior
- ☐ National Basic Education Exams
- ☐ Formative Evaluation Kit
- ☐ Management of International Exams (TIMSS, PIRLS, PISA, and TALIS survey)

- ☐ Gifted and Talented Battery
- ☐ Creativity Figural Test
- ☐ Adaptive Individual IQ Test

Tests Domain



☐ English Language:

- ✓ English Placement Test (EPT)
- ✓ Standardized English Proficiency Test (STEP)

☐ Arabic Language:

- ✓ Standardized Test of Arabic Proficiency in Speakers of other Languages (STAPSOL).
- ✓ Standardized Test of Arabic Proficiency for Native Speakers.

☐ District Attorney Test (DAT)

☐ Teacher licensure Test (TLTG; TLTS).

☐ Engineering Licensure Test (GELT; SELT).

☐ General Employability Test (GCAT).

☐ Tourist Guide Licensure Test (GTGLT; STGLT).



Nature of Research



- ☐ An Approach to Scoring and Equating Tests With Binary Items: Piloting With Large- Scale Assessments
- ☐ **The Delta-Scoring Method Adapted for Polytomous Test Items**
- ☐ Examining the prevalence and impact of non-attempted items in NCA educational tests
- ☐ Differential Distractor Functioning (DDF) as a method for explaining Differential Information Functioning (DIF): The case of the Standard Achievement Admission Test (SAAT)
- ☐ Power Function Model for Item True Scores on the D-scale
- ☐ Differential validity of the GAT admission test in Saudi Arabia
- ☐ Test length and precision: how precise the GAT will be if the test is shortened?
- ☐ (GAT-Quantitative: Testing for Dimensionality and Validation of Factorial Structure
- ☐ (Latent Class Analysis of GAT-Quantitative Data
- ☐ (Teacher Test-Educational Skills: *IRT and True-Score Data Analysis*

Nature of Research



- ☐ Predicting Cheating Test length and precision: how precise the GAT will be if the test is shortened?
- ☐ Test length and precision: how precise the GAT will be if the test is shortened?
- ☐ Statistical Analysis of the Difference in Student Performance on Computerized and Paper-and-Pencil Based GAT in Arts, English, and Science.
- ☐ The dimensionality of the Investigation and General Prosecution Scale: The General Aptitude Test.
- ☐ (Comparison of High School, GAT and SAAT Scores: Detection of Possible Inflation in High School Grades
- ☐ A Comparison of Students Performance in Standard Achievement Admission Test (SAAT) Across Educational Administrations, Types of School, Genders and Nationalities
- ☐ Investigation for Exposed Items in the Context of the General Aptitude Test GAT

Nature of Research



- ☐ Standardized Test for Arabic Proficiency for Speakers of Other Languages (STAPSOL): Essay Rating: An Analysis based on G-Theory.
- ☐ STAPSOL: Essay Rating: An Analysis based on Multifaceted Theory.
- ☐ STAPSOL: Essay Rating: Definition of Rubrics.
- ☐ Identifying Content and Cognitive Dimensions of the Standardized Test of English Proficiency (STEP)
- ☐ Teacher Test-Educational Skills: Equating of Test Forms (A3-B3).
- ☐ The Relationship Between Test Takers Characteristics and Their Performance on the New Teachers' Licensure Test: The Case of Specialty 16 (Special Education).
- ☐ NEW TEACHER TEST: Factor Structure and Reliability.
- ☐ The dimensionality of the "Investigation and General Prosecution Scale: The Islamic Law". (DAT)

Nature of Research



- ☐ Evaluating the Effectiveness of Engineering Programs in Saudi Arabia Based on Learning Outcomes: A comparison between the present Model and Value-Added Model
- ☐ Evaluation of Outcome of Some Private and Simi-private Schools That Use International Curricula
- ☐ Evaluating the Effect of Digital Learning Experimentation In some Schools Across three regions in Saudi Arabia
- ☐ How to use learning outcomes scores Application on engineering tests?
- ☐ High School Assessment (Lenient, Adequate, Strict) Relative to the NCA Assessments SAAT and GAT: Revisited: Year 2015
- ☐ Evaluating International Programs Used in Private Schools in Saudi Arabia.
- ☐ An Assessment of the Digital Education Programs in KSA Schools, 2018.



Research Topic	Number of Studies
CBT	11
EPT	10
Test Equating	7
GAT	48
DAT	4
Outcome Exams	7
Review of literature	5
Gifted Battery	8
Measurement Methods	49
Operation	1
PGAT	5
SAAT	13
STAPSOL	18
STEP	5
Teacher Licensure test	51
Interest Inventory	1
Educational Evaluation Studies	14
Total	257



1st International Conference on
Assessment & Evaluation:
Admission Criteria in Higher Education
Riyadh on December 2nd – 4th , 2012

2nd International Conference on
Assessment & Evaluation:
Outcomes Assessment
Riyadh on December 1st – 3rd , 2015

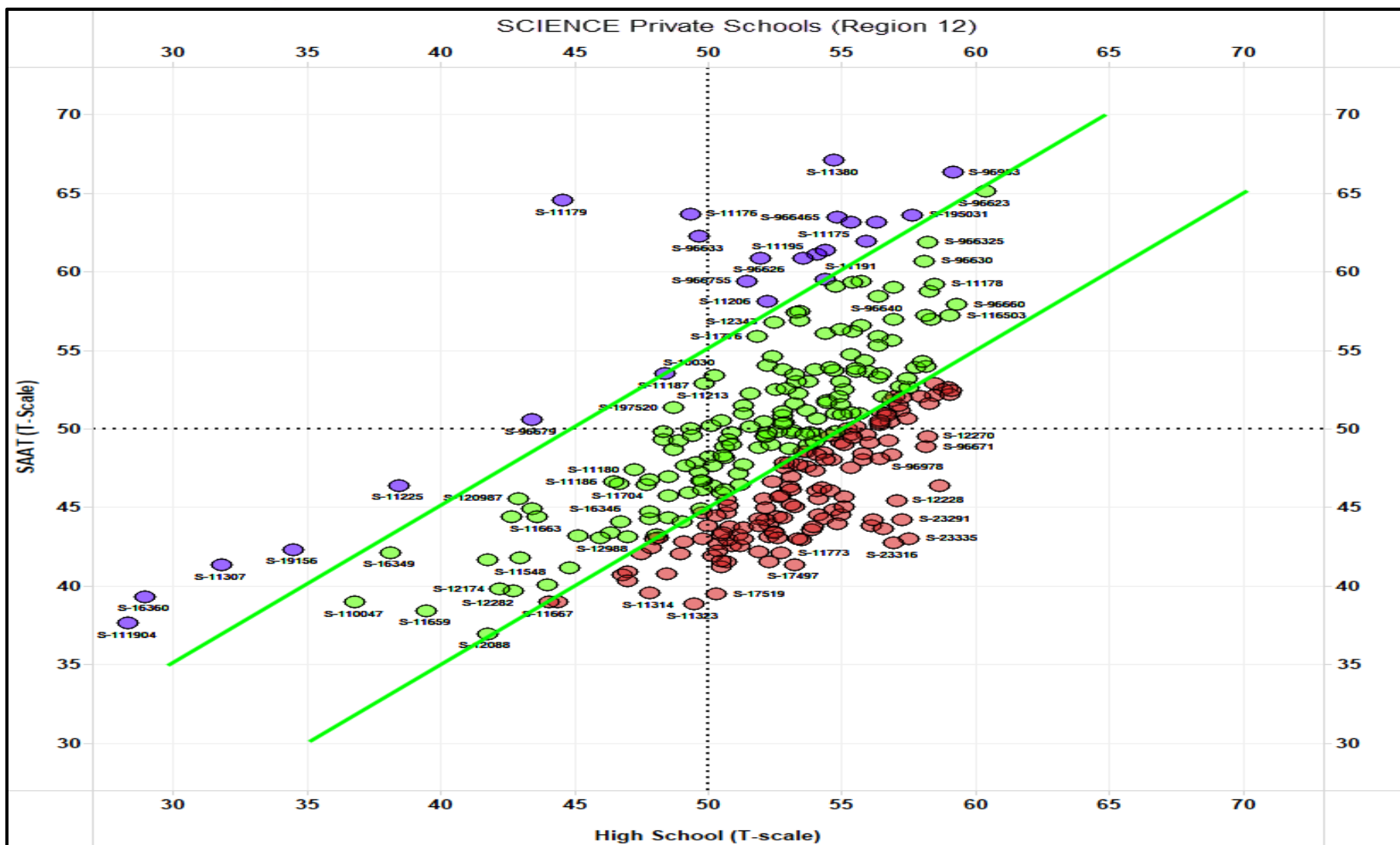
2018 International Conference on Education Evaluation 2018: Future Skills - Development and Assessment Riyadh on December 4th – 6th , 2018





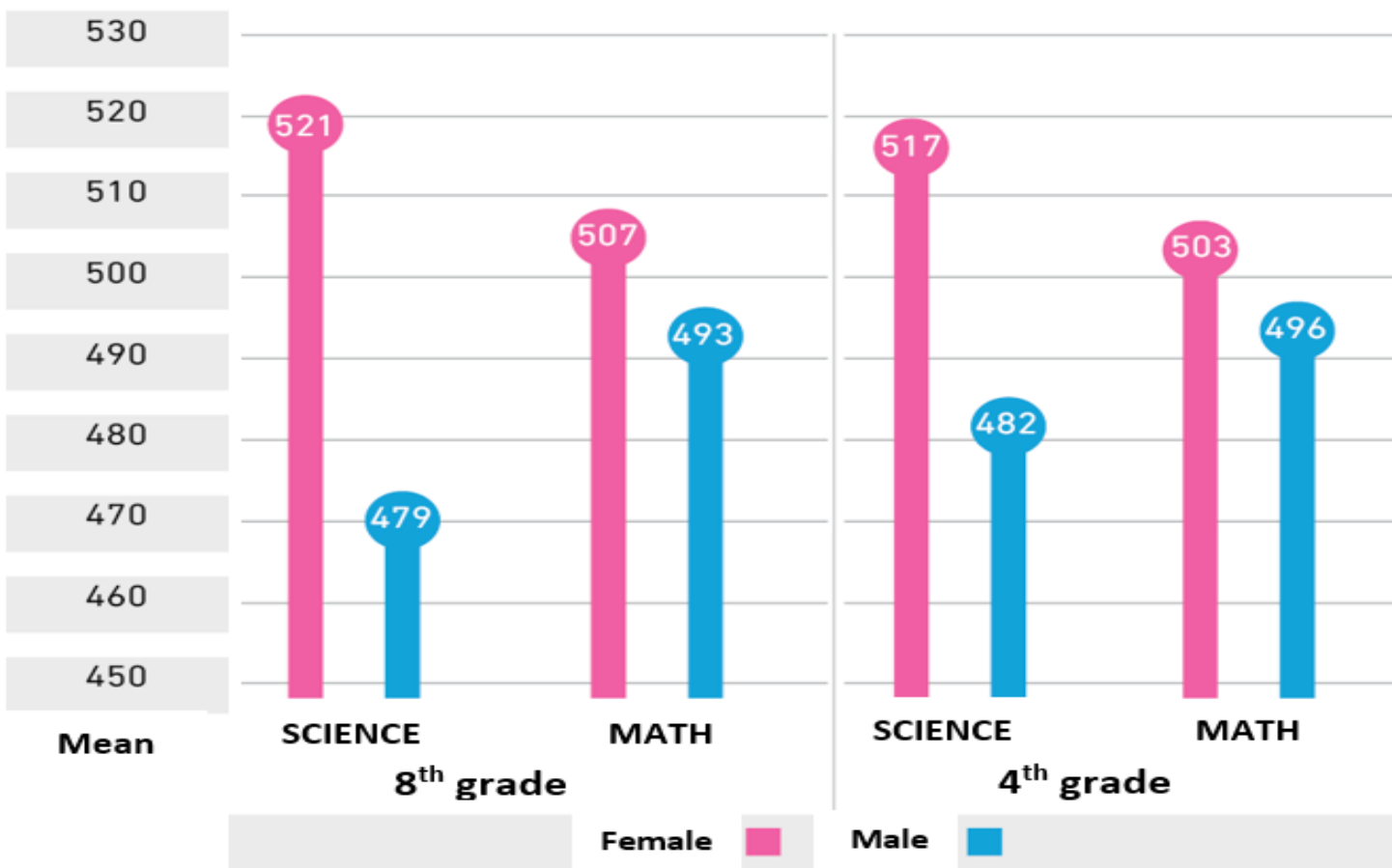
Samples of Research Results





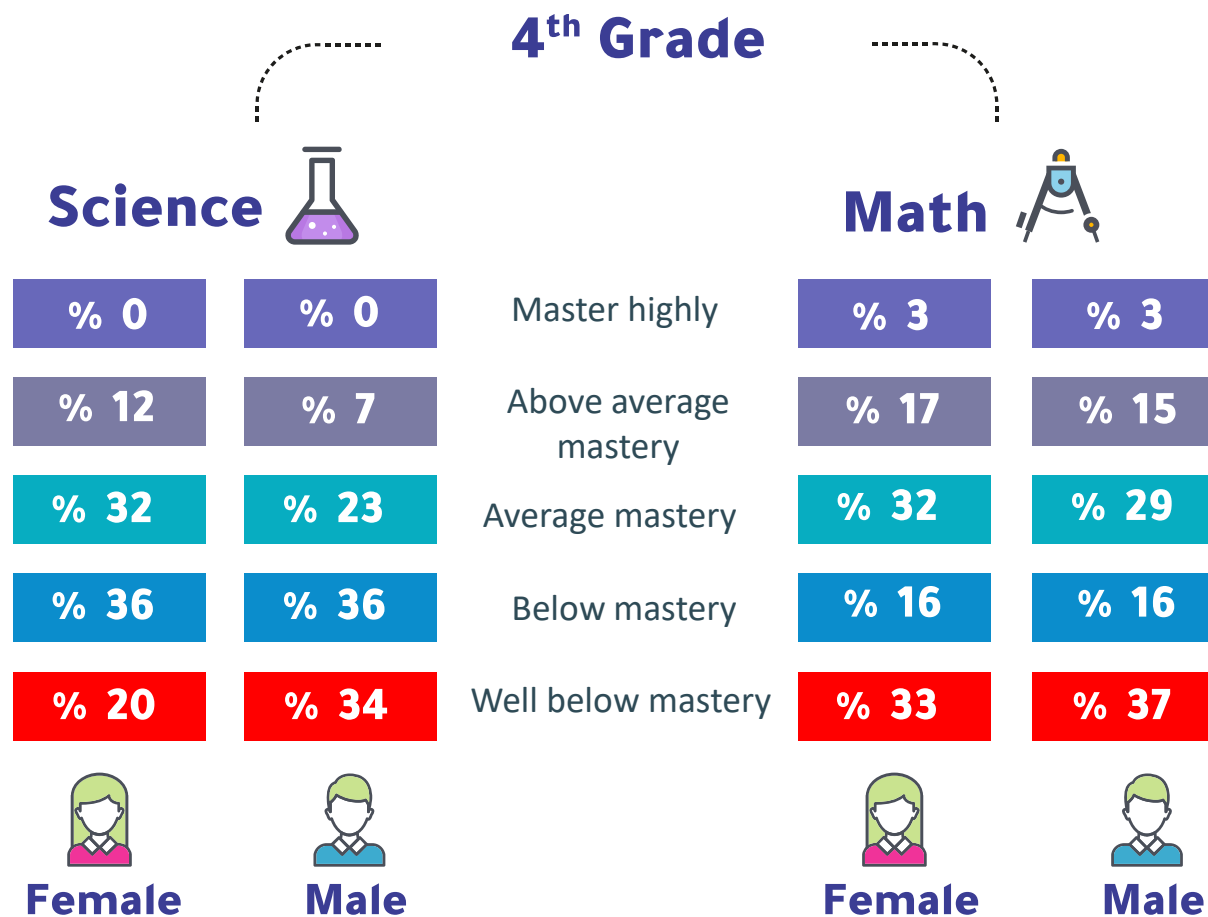


Average performance of male and female in Math and Science for 4th and 8th grades



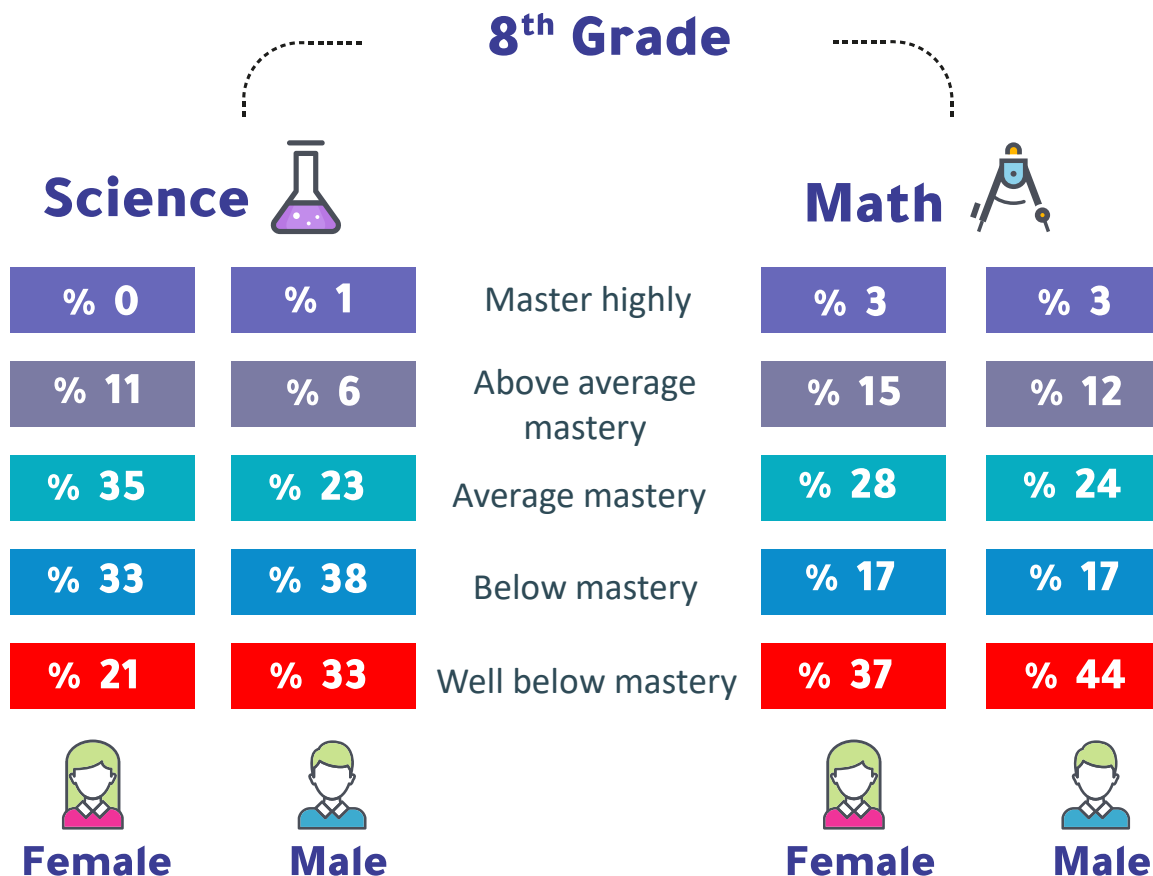


Percentage of Masters and Non-masters of Math and Science in Several Levels at 4th Grades





Percentage of Masters and Non-masters of Math and Science in Several Levels at 8th Grades



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THANK YOU

SHUKRAN 😊