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ArcelorMittal Science Centre (South Africa)

Accelerated Mentoring and Coaching Learner Programme – Using Smart *phones*

SCWS 2017 Tokyo Japan -

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ArcelorMittal Science Centres:



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- Vanderbijlpark – Gauteng Province
- Newcastle – Kwazulu Natal Province
- Saldanah Bay – Western Cape Province

Who Are We?



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ArcelorMittal Science Centre is a centre for excellence which has learning facility for teachers, learners and out-of-school youth, which services both rural and urban communities.

We pride ourselves by providing facilities for both learners and educators to take learning to an elevated level of understanding of mathematics, science, engineering and computer studies.

ArcelorMittal Science Centre is an enthusiastic educational facility that offers an out of this world experience to the world of science through radiant science programs.



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School Programme



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School Visits



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Mobile



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Science show: Outreach



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Science Awareness

Teacher Training



Outreach in Social Events



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ICT Programme



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SCIENCE ADVANCEMENT



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Careers & Personal Development



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Brotherhood- Science Club




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R40m spent on Science Centres nationwide
443 bursaries to Engineering students
R177m spent on skills development
4391 apprentices trained in the last five years



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Target Group



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- Leaners
- General Public

Learners



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Farms- Rural



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Informal Settlement



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Unemployed Families



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Cell Phones in Learning Institutions

- Regardless of your science centre's cell phone policy, the reality in most schools and centres of learning is that learners have cell phones in their pockets, purses or school bags. Why not get these tools out in plain sight & use them for good and not evil?



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Use of Smart phones -SELFIE



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Taking pictures



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Learners & Smart Phones



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Why use Cell phone as a learning tool ?

- It is not complicated as a computer
- Is personal technology
- Learners can learn features of cell phones on their own without getting taught
- Learning can extend beyond the walls of a school/ Science centre



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How to use cell phones as a learning tool

- Recording a lesson
- Learner response or tracking system for a teacher
- Delivering learning material to learners
- Learners searching additional information
- Sending assignments answers



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AMCLP-Pilot Programme

- It started 2014
- Grade 12
- DBE supported
- Selection in 5 Schools
- Maths; P/Science ;Life Science & English
- Principals & played a part- computers @ schools & smart phones
- AMSA trasporting learners for contact sessions



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Solving comm. Problems using cell phones in class

- Learners without cell phones/ smart phones ?
 - Group work is encouraged
- Wireless Access
 - Home work group work
- Keeping Cell phone use appropriate
 - Each learner must be reminded about appropriate technology use, and what to happen if rules are broken



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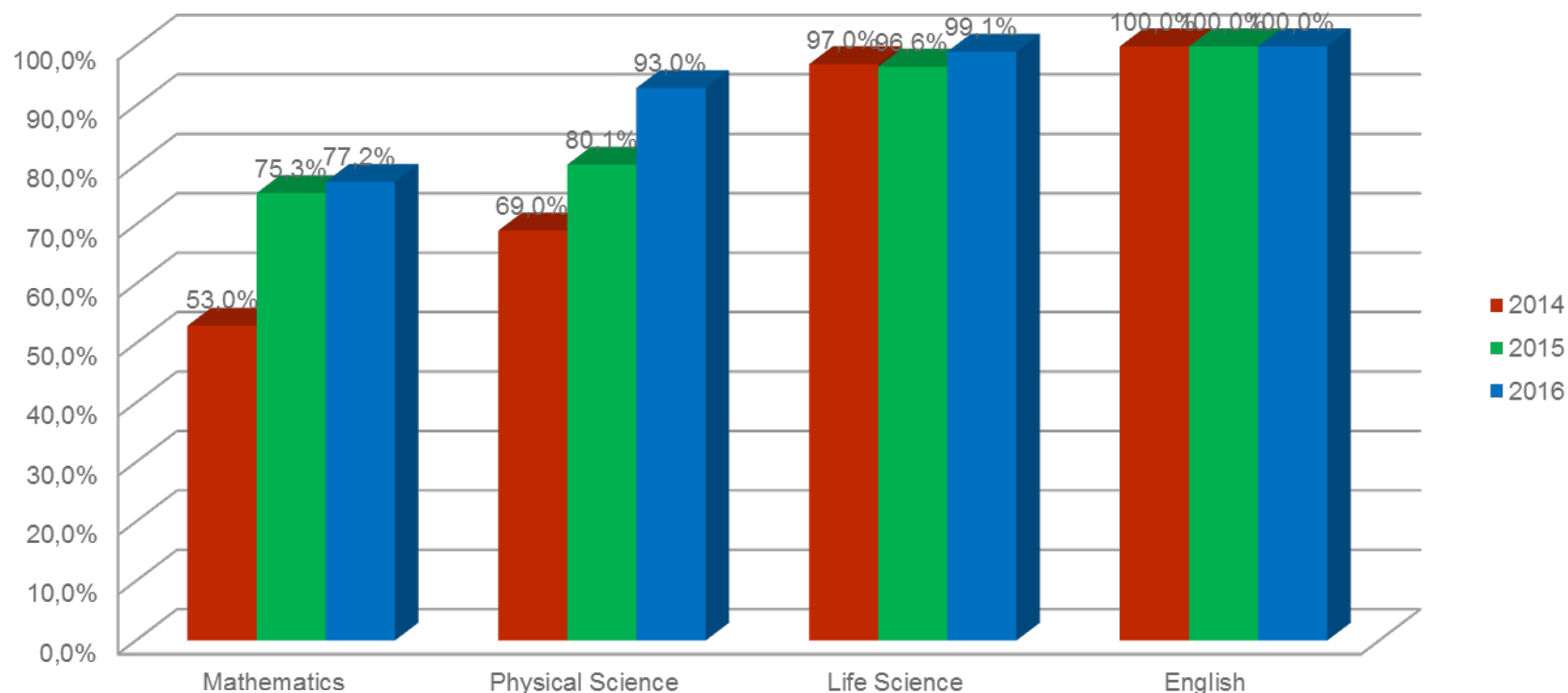
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Comparison of results for year: 2014-2016

3 Years Cycle Per Subject



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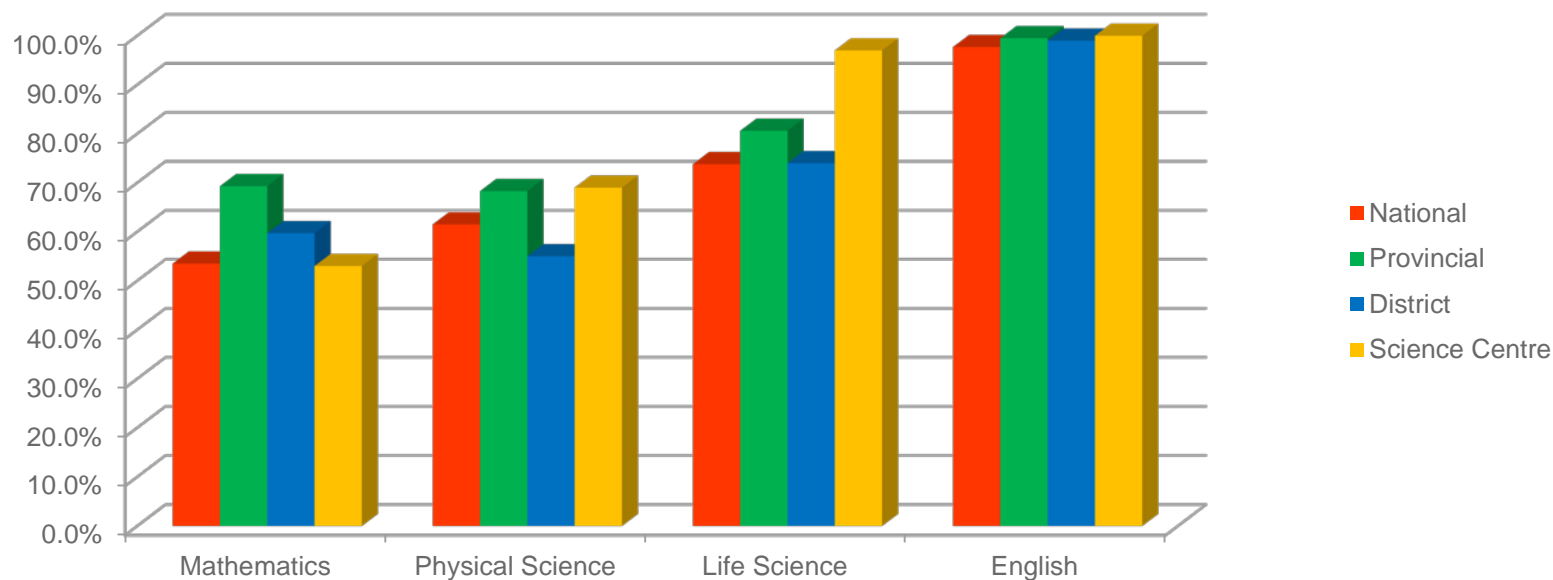
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Graphical Comparison 2014

2014 Comparisons

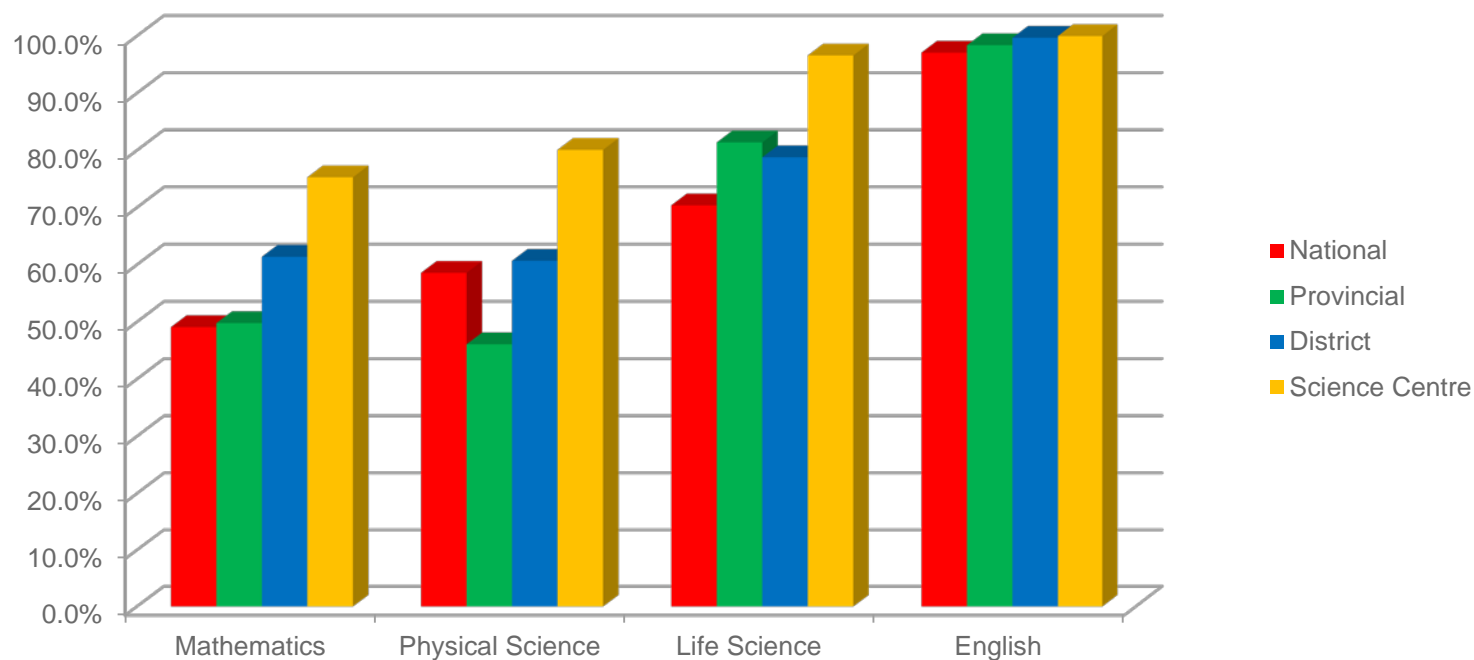




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Graphical Comparison 2015

2015 Comparisons

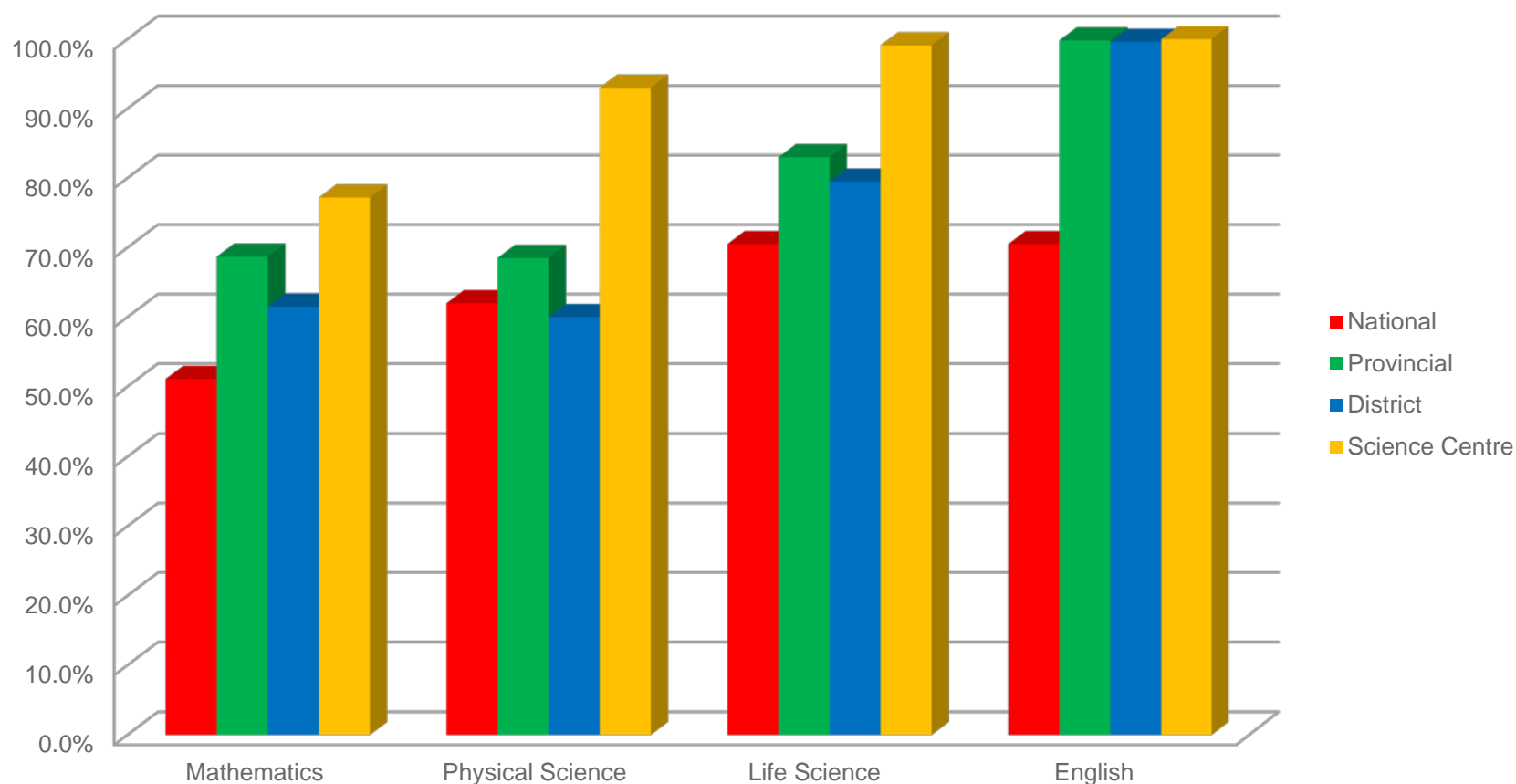




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Graphical Comparison 2016

2016 Comparisons





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**“If your plan is for one year
plant rice. If your plan is for ten
years plant trees. If your plan is
for one hundred years educate
children. ”**

- Confucius



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Closing Statement



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This is a new time in education and with dwindling Science Centre budgets, we need to rethink possibilities, stretching every little Rand we receive to good use. We have no choice these little computers are walking through the doors each day, lets put them to work.

TEAM



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Dance Moves



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