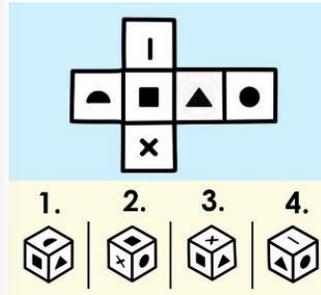


# FOUNDATION PHASE CODING AND ROBOTICS

## MATHILDA BOTHA



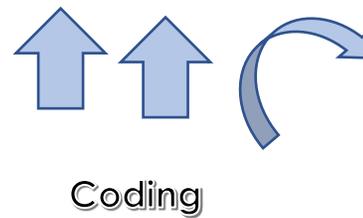
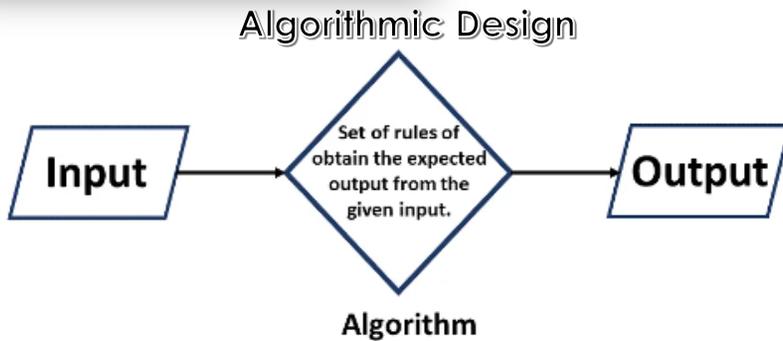
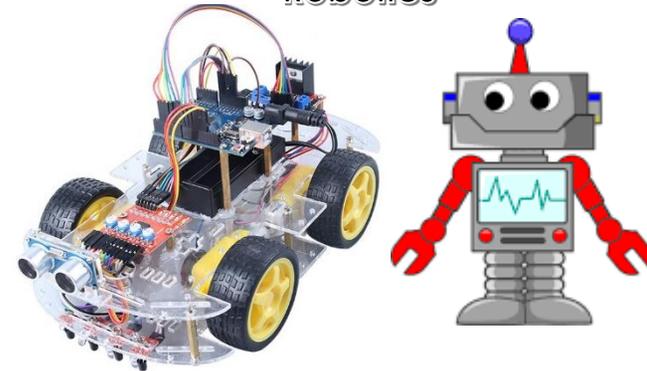
Pattern recognition



Problem solving



Robotics



### Computational thinking in everyday life



<https://wced.eportal.co.za/ere/source/223156>

**CODING & ROBOTICS**

**OBJECTIVE GOALS AS PER ACTION 2014: TOWARDS REALISATION OF SCHOOLING 2030**

**GOAL NO.1:**

**Increase the number of learners in Grade 3, who by the end of the year, have mastered the minimum language and Mathematics competency in Grade 3.**

OBJECTIVES	ACTIVITY	TARGET	TIME FRAME	WHAT HO WILL DO	WHAT DISTRICTS WILL DO	WHAT SCHOOLS WILL DO
<b>PROFESSIONAL DEVELOPMENT</b>	<ul style="list-style-type: none"> <li>• <b>Training of all SAs</b> on specific objectives with integration of Lang and other subjects</li> <li>• Training lead teachers (in pilot schools) for the 500 club project</li> <li>• <b>Collaboration</b> with HEIs, E-learning, CTLI and other external partners to promote C&amp;R</li> </ul>	<ul style="list-style-type: none"> <li>• Subject Advisers</li> <li>• Teachers of pilot schools</li> <li>• HEIs, CTLI, External partners</li> </ul>	<ul style="list-style-type: none"> <li>• 2023 -Term 1</li> <li>• 2023 – Term 2</li> <li>• 2023-2025</li> </ul>	<ul style="list-style-type: none"> <li>• Develop SAs in the Knowledge Strands of Coding and Robotics</li> <li>• Develop SAs to see the integration into other subjects</li> <li>• Issue notices to Districts</li> <li>• Support SAs to train teachers</li> <li>• Set up a training programme</li> <li>• Collaborate with all external partners, HEIs and CTLI</li> </ul>	<ul style="list-style-type: none"> <li>• Attend the trainings</li> <li>• Develop own knowledge of the subject</li> <li>• Issue notices to schools</li> <li>• Support teachers and take part in the training</li> <li>• N/A</li> </ul>	<ul style="list-style-type: none"> <li>• N/A</li> <li>• Schools to issue notices to teachers</li> <li>• Teachers to attend trainings</li> <li>• DHs to monitor implementation</li> <li>• N/A</li> </ul>
<b>SUBJECT DEVELOPMENT</b>	<ul style="list-style-type: none"> <li>• Development of Curriculum and upload resources to e-Portal</li> <li>• Development and research of resources</li> </ul>	<ul style="list-style-type: none"> <li>• Subject Advisers</li> <li>• Teachers</li> </ul>	<ul style="list-style-type: none"> <li>• 2023</li> <li>• 2023 – 2025</li> </ul>	<ul style="list-style-type: none"> <li>• Mediate the Curriculum with SAs</li> <li>• Develop and upload resources to e-Portal</li> </ul>	<ul style="list-style-type: none"> <li>• Attend mediation sessions</li> <li>• Set up mediation sessions with schools</li> <li>• Do external monitoring of implementation</li> </ul>	<ul style="list-style-type: none"> <li>• Attend mediation sessions</li> <li>• DHs to monitor</li> </ul>

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		<ul style="list-style-type: none"> <li>Subject Advisers</li> <li>Teachers</li> </ul>		<ul style="list-style-type: none"> <li>Research other possible resources</li> </ul>	<ul style="list-style-type: none"> <li>Support schools to start PLCs</li> </ul>	<ul style="list-style-type: none"> <li>implementation</li> <li>DHs do internal moderation</li> <li>Start PLCs and attend PLCs</li> </ul>
<p><b>ASSESSMENT</b></p>	<ul style="list-style-type: none"> <li><b>Informal Formative</b> assessments – What and how?</li> <li><b>Train SAs / teachers</b> on the effective use of checklists and rubrics for formative assessment</li> <li><b>Monitor and evaluate</b> implementation in targeted schools</li> </ul>	<ul style="list-style-type: none"> <li>Subject Advisers</li> <li>Teachers</li> <li>Subject Advisers</li> <li>Teachers</li> <li>Identified schools in each District</li> </ul>	<ul style="list-style-type: none"> <li>2023 -2025</li> <li>2023 – 2025</li> <li>2023 - 2025</li> </ul>	<ul style="list-style-type: none"> <li>Mediate informal assessments with SAs</li> <li>What to assess and how to assess these skills</li> <li>Mediate the use of checklists and rubrics with SAs</li> <li>Assist with setting up of rubrics and checklists</li> <li>Monitor and evaluate the implementation of the strategies mediated with schools</li> </ul>	<ul style="list-style-type: none"> <li>SAs</li> <li>SAs will train teachers on informal assessments</li> <li>SAs will strengthen their use and understanding of checklists and rubrics</li> <li>External moderation and monitoring by SAs to monitor and evaluate implementation</li> <li>Identify schools for moderation by HO</li> </ul>	<ul style="list-style-type: none"> <li>Teachers must implement informal strategies and keep records</li> <li>DHs must monitor informal assessments and the records teachers keep</li> <li>Use of appropriate checklists and rubrics</li> <li>Implement the strategies and skills mediated</li> <li>DHs must monitor</li> </ul>

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OBJECTIVES	ACTIVITY	TARGET	TIME FRAME	WHAT HO WILL DO	WHAT DISTRICTS WILL DO	WHAT SCHOOLS WILL DO
						implementati on
<p><b>NATIONAL AND PROVINCIAL OBJECTIVES</b></p>	<ul style="list-style-type: none"> <li>● <b>National and Provincial Subject Committee meetings</b></li> <li>● <b>Advocacy</b> to colleagues / Districts / Schools / teachers / other stakeholders (Roadshow)</li> <li>● <b>Blended Learning</b> – Use of blended learning in all training sessions with SA's and teachers.</li> </ul>	<ul style="list-style-type: none"> <li>● Head Office Officials</li> <li>● District Officials</li> <li>● Head Office Officials</li> <li>● District Officials</li> <li>● Schools /teachers</li> <li>● Subject Advisers</li> <li>● Teachers</li> </ul>	<ul style="list-style-type: none"> <li>● 2023 – 2025</li> <li>● 2023 - 2025</li> <li>● 2023 - 2025</li> </ul>	<ul style="list-style-type: none"> <li>● Issue notices to Districts</li> <li>● Give feedback on progress made</li> <li>● Issue notices to Colleagues and Districts</li> <li>● Use blended learning during training of SAs.</li> <li>● Develop SAs with regards to use of blended learning in all training sessions</li> </ul>	<ul style="list-style-type: none"> <li>● Districts give feedback on progress made and challenges experienced</li> <li>● Notices to officials and schools</li> <li>● SAs to use blended learning during training sessions</li> <li>● Advocate the use of blended learning</li> </ul>	<ul style="list-style-type: none"> <li>● Schools give feedback to District Officials on progress made and challenges experienced</li> <li>● Demonstrate implementation during visits by officials</li> <li>● Use blended learning to enhance teaching and learning</li> <li>● DHs monitor use of blended learning</li> </ul>