



Kindy Uplift

Investigate Experiments - Science

RESTA Reptile Education & Safety Awareness Training Kindergarten Uplift Priority Area Adherence

RESTA has been providing reptile education and safety training in Australia for more than 15 years and is considered Queensland's premier reptile entertainment and education service. Our reptile safety presentations have been saving lives and delighting people of all ages for over 15 years; we are one of the longest-running snake shows in Queensland!

RESTA offers a range of educational programs tailored for kindergarten age and beyond, designed to complement existing curricula and bolster learning outcomes. These programs serve as valuable tools for educators to enhance their teaching strategies and delve deeper into subjects already covered. By utilising RESTA's resources, educators can pinpoint children's interests and leverage them to foster a love for learning.

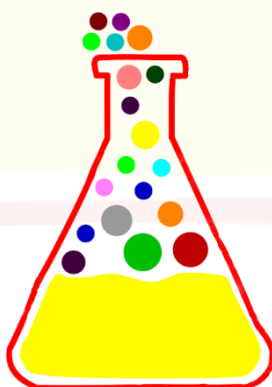
Moreover, by consistently engaging with RESTA's programs, educators can cultivate trust and confidence in their teaching methods, as children become accustomed to familiar faces in their learning environment. The hands-on components of RESTA's workshops actively encourage exploration and facilitate experiential learning, aligning with the Queensland Kindergarten Learning Guidelines (QKLG) and the Early Years Learning Framework (ELF) outcomes.

RESTA's programs extend beyond traditional subject areas, encompassing STEM disciplines and other curriculum domains. By integrating these workshops into their teaching practices, educators can effectively address learning and development objectives outlined in both ACARA and QCAA frameworks. Additionally, RESTA offers tailored mapping for specific year levels, ensuring seamless integration with syllabus requirements.

Furthermore, RESTA plays a pivotal role in enhancing educator capability and fostering the acquisition of essential knowledge for teaching biology and scientific concepts including executive functioning and enhancing children's language & communication skills. Through comprehensive training and support, educators can expand their proficiency in delivering engaging and informative lessons, thereby enriching the learning experience for children.

As RESTA travels to various locations throughout the year, educators can take advantage of its accessibility and flexible packages to enhance their professional development and enrich classroom experiences.

The following pages and table identify how this program offered by RESTA adhere to the priority areas of the Kindergarten Uplift program and meet the Queensland Kindergarten Learning Guidelines.





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Investigate Experiments

(Cassowary Coast and Cains Region only)

An introduction to the principles of science offers students an engaging opportunity to delve into the wonders of experimentation, with each activity promising fun and exciting outcomes. Through hands-on exploration, children participate in a variety of experiments spanning different science disciplines, including static electricity, surface tension, chemical reactions, and sound vibrations, among others.

Beyond the thrill of discovery, these science experiments serve as powerful tools for developing children's language, communication skills, and executive functioning. Through observation, prediction, and analysis, students learn to articulate their observations and findings, enhancing their verbal and written communication abilities. Moreover, engaging in scientific inquiry fosters critical thinking and problem-solving skills, nurturing executive function development.

As educators actively participate in these science incursions, they deepen their understanding of how science investigations can enrich and extend children's learning experiences. By incorporating scientific principles into their teaching practices, educators enhance their pedagogical repertoire, providing opportunities for children to explore and inquire about the world around them.

Recognising the importance of science capability, educators strive to embed scientific inquiry into their curriculum, aligning with the Kindergarten Uplift capability areas. By fostering culturally safe, inclusive, and responsive kindergarten programs, educators create environments where all students feel valued and respected.

Furthermore, science exploration contributes to social and emotional learning by encouraging collaboration, resilience, and curiosity. Physical engagement in science activities promotes gross and fine motor skills development, while the integration of mathematics and numeracy concepts enhances mathematical understanding and reasoning.

In summary, the introduction to science principles not only sparks excitement and curiosity in children but also serves as a catalyst for holistic development, aligning with the Kindergarten Uplift capability areas and fostering a love for lifelong learning.

<u>Priority Area</u>	<u>How this is met</u>	<u>QKLG Outcomes Achieved</u>
<i>Culturally safe, inclusive, and responsive kindergarten programs</i> <i>Embedding Aboriginal and Torres Strait Islander perspectives</i> <i>Equity and Access for all</i>	n/a	
<i>Social and emotional learning</i>	<ul style="list-style-type: none">• Children develop resilience in times of challenge• Children learn to regulate their emotions with support from educators when in	<ol style="list-style-type: none">1. Identity2. Connectedness5. Communicating

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<u>Priority Area</u>	<u>How this is met</u>	<u>QKLG Outcomes Achieved</u>
	<p>uncertain and challenging situations.</p> <ul style="list-style-type: none"> • Children form connections with a community organisation • Children become aware of how their emotions can be triggered during an event • Children learn to adhere to expectations in a challenging social situation • Children become aware of how they may feel with unfamiliar people, how to read if the situation is safe and become confident in the interaction that occurs. • Children share, take-turns and display resilience during the experience <p>RESTA's Investigate experiments program also focuses on developing children's emotional resilience and coping skills. Children develop resilience in times of challenge and learn to regulate their emotions with the support of their educators when faced with uncertain and challenging situations. By forming connections with community organisations, children also gain a sense of belonging and learn about the importance of community involvement. During these events, children become aware of how their emotions can be triggered and learn to adhere to expectations in challenging social situations. They also learn how to read unfamiliar situations to ensure that they are safe and become confident in the interaction that occurs.</p> <p>Moreover, through the learning experiences in RESTA's programs, children share, take</p>	



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	<p>turns, and display resilience. These activities help children build their communication skills, social skills, and emotional regulation skills, all of which are important for their development. By engaging with RESTA's programs, children can develop these skills in a fun and engaging way, helping them navigate challenging situations with confidence and composure.</p>	
<p><i>Physicality</i></p>	<ul style="list-style-type: none"> • Educators and children use hand-eye movements and visual tracking to complete experiments • Children become confident in pouring, touching and using the vocabulary introduced around different scientific concepts <p>RESTA's Investigate experiments program also encourages children to develop their hand-eye movements and visual tracking skills by completing experiments. Through these experiments, children can develop their fine motor skills and hand-eye coordination, which are essential for their development. Moreover, children become confident in pouring, touching, and using the vocabulary introduced around different scientific concepts. These activities help children build their confidence and develop their understanding of scientific concepts in a fun and engaging way. By incorporating these activities into the learning experience, RESTA's programs help children develop essential</p>	<p>3. Wellbeing</p>



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	skills and knowledge while also making learning enjoyable.	
<p><i>Executive Functioning</i></p>	<ul style="list-style-type: none"> • Children learn to pose questions • Children link to prior experiences • Children and educators expand their knowledge on how science works. • Children recall their learning and use to recreate the science • Children share their learning with parents/caregivers and the local kindergarten community • Children and Educators become aware of the importance of science and what science gives us • Children and educators become aware of how to look outside the box, predicting, investigating, and concluding on different science concepts. • Educators become aware of different strategies and experiences they can embed to enhance active child engagement. <p>RESTA's Investigate experiments program encourages children to pose questions, link their prior experiences with their learning, and expand their knowledge on how science works. Through the workshops, children and educators explore scientific concepts, conduct experiments, and engage in discussions. Children are also encouraged to recall their learning and use it to recreate the science, fostering a deeper understanding of scientific principles. Moreover, children are encouraged to share their</p>	<ul style="list-style-type: none"> 2. Connectedness 3. Wellbeing 4. Active Learning 5. Communicating



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<u>Priority Area</u>	<u>How this is met</u>	<u>QLG Outcomes Achieved</u>
	<p>learning with their parents, caregivers, and the local kindergarten community, increasing awareness about the importance of science and its benefits.</p> <p>Through RESTA's programs, children and educators become aware of the importance of science and what science gives us. They also learn how to look outside the box, predict, investigate, and conclude on different science concepts. These experiences help children develop their critical thinking and problem-solving skills while fostering an appreciation for the scientific process. Additionally, educators become aware of different strategies and experiences they can embed to enhance active child engagement, promoting a love for learning in children. Overall, RESTA's programs provide children and educators with valuable tools to enhance their learning and build their knowledge and understanding of the scientific world.</p>	
<p><i>Oral Language & Literacy</i></p>	<ul style="list-style-type: none"> • Children and educators enhance and expand their vocabulary around science. • Children challenge their listening and responding skills • Children and educators pose questions and answer them • Children share their thoughts and ideas with others <p>RESTA's Investigate experiments program also focuses on enhancing and expanding children and</p>	<p>4. Active Learning 5. Communicating</p>

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<u>Priority Area</u>	<u>How this is met</u>	<u>QKLG Outcomes Achieved</u>
	<p>educators' vocabulary around science. Through the workshops, children and educators engage in conversations, challenge their listening and responding skills, and pose questions and answer them. This interactive approach helps children develop their communication skills and expand their vocabulary around scientific concepts. Moreover, children are encouraged to share their thoughts and ideas with others, building their confidence and self-expression skills. By engaging with RESTA's programs, children and educators can develop a deeper understanding of scientific concepts and enhance their knowledge and skills in communicating about them. This can lead to a greater appreciation for science and its benefits and foster a love for learning in children.</p>	
<p><i>Mathematics & Numeracy</i></p>	<ul style="list-style-type: none"> • Children use positional language to complete activities • Children use mathematical concepts to complete activities supported by educators and RESTA professionals <p>RESTA's Investigate experiments program also incorporates opportunities for children to use positional language and mathematical concepts to complete activities. Through these activities, children can develop their understanding of mathematical concepts, such as counting, sorting, and measurement, while also expanding their</p>	<p>4. Active Learning 5. Communicating</p>



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	<p>vocabulary and communication skills. Educators and RESTA professionals support children throughout these activities, providing guidance and feedback to ensure that children can complete the activities successfully. By incorporating these activities into the learning experience, RESTA's programs help children develop essential skills and knowledge while also making learning fun and engaging. Additionally, children can learn how to use positional language to describe the location of different objects in their environment, further developing their communication and language skills.</p>	

