


# The Kids Research Institute Australia DISCOVERY CENTER EXCURSION PROGRAM

## EXCURSION TOPICS + CURRICULUM LINKS


Located on the ground floor at the northern entrance of the Perth Children's Hospital, The Kids Research Institute Australia Discovery Centre is a fun and interactive space full of games designed to get kids excited about science, health and research. Our primary school program provides a chance for students in Years 3 - 6 to visit the The Kids Discovery Centre for an excursion, interact with a real-life The Kids researcher and see STEM subjects come to life, as they are applied to life-saving medical research.

### Topics on offer for our Excursion Program:


EXCURSION TOPIC	RECOMMENDED YEAR LEVEL	AUSTRALIAN CURRICULUM LINKS
 <h3>Get a Lung of this</h3> <p>Discover the power of our lungs and make some slimy mucous to investigate how this affects kids with chronic respiratory illnesses. Students will*:</p> <ul style="list-style-type: none"> <li>✓ Build a lung model to learn about how our lungs work</li> <li>✓ Learn about chronic respiratory illnesses, such as asthma and cystic fibrosis</li> <li>✓ Make slimy mucous to investigate how this affects your breathing</li> </ul> <p>Explore some of the research work happening in the area of respiratory health.</p>	<b>Year 3</b>	<p><b>Science Understanding</b> Biological sciences (ACSSU044)</p> <p><b>Science Inquiry Skills</b> Questioning and predicting (AC SIS053) Planning and conducting (AC SIS054) Processing and analysing data and information (AC SIS215) Communicating (AC SIS060)</p> <p><b>Science as a Human Endeavour</b> Nature and development of science (AC SHE050) Use and influence of science (AC SHE051)</p>
	<b>Year 4</b>	<p><b>Science Understanding</b> Biological sciences (ACSSU072 &amp; ACSSU073)</p> <p><b>Science Inquiry Skills</b> Questioning and predicting (AC SIS064) Planning and conducting (AC SIS065 &amp; AC SIS066) Processing and analysing data and information (AC SIS216) Communicating (AC SIS071)</p> <p><b>Science as a Human Endeavour</b> Nature and development of science (AC SHE061) Use and influence of science (AC SHE062)</p>

\*This excursion topic also includes time to explore the interactive games in our Discovery Centre and a guided tour of a real-life working lab.


EXCURSION TOPIC	RECOMMENDED YEAR LEVEL	AUSTRALIAN CURRICULUM LINKS
<div data-bbox="118 398 304 483"> </div> <h2 data-bbox="331 398 600 443">Food Futures</h2> <p data-bbox="105 501 604 712">What is the future of food and nutrition? In this workshop your students will get to explore and use our 3D- food printers to create futuristic food and learn all about nutrition. Students will:</p> <ul data-bbox="118 730 604 1021" style="list-style-type: none"> <li>✓ Prepare food to go in our 3-D food printer</li> <li>✓ Use their imagination to design their own 3D printed foods</li> <li>✓ See our 3-D food printer in action</li> <li>✓ Learn about nutrition through an interactive game</li> </ul>	<p data-bbox="691 712 775 741">Year 3</p>	<p data-bbox="858 398 1251 427"><b>Science as a Human Endeavor</b></p> <p data-bbox="884 439 1406 468">Use and influence of science (ACSHE051)</p> <p data-bbox="858 483 1139 512"><b>Science Inquiry Skills</b></p> <p data-bbox="884 524 1378 553">Questioning and predicting (ACSIS053)</p> <p data-bbox="884 564 1238 593">Communicating (ACSIS060)</p> <p data-bbox="858 609 1251 638"><b>Health and Physical Education</b></p> <p data-bbox="884 649 1422 678">Being healthy, safe and active (ACPPS036)</p> <p data-bbox="884 689 1418 719">Communicating and interacting for health and wellbeing (ACPPS039)</p> <p data-bbox="858 772 1182 801"><b>Design and Technologies</b></p> <p data-bbox="884 813 1276 842">Knowledge and Understanding</p> <p data-bbox="884 853 1382 882">Technologies and society (ACTDEK010)</p> <p data-bbox="884 896 1331 925">Technology concepts (ACTDEK012)</p> <p data-bbox="858 940 1145 969"><b>Creating Solutions by:</b></p> <p data-bbox="884 981 1169 1010">Designing (WATPPS17)</p> <p data-bbox="884 1021 1177 1050">Evaluating (WATPPS19)</p> <p data-bbox="884 1061 1406 1090">Collaborating and managing (WATPPS20)</p>
	<p data-bbox="691 1480 775 1509">Year 4</p>	<p data-bbox="858 1135 1251 1164"><b>Science as a Human Endeavor</b></p> <p data-bbox="884 1176 1339 1205">Nature and development of science (ACSHE061)</p> <p data-bbox="884 1216 1414 1245">Use and influence of science (ACSHE062)</p> <p data-bbox="858 1294 1139 1323"><b>Science Inquiry Skills</b></p> <p data-bbox="884 1335 1378 1364">Questioning and predicting (ACSIS064)</p> <p data-bbox="884 1375 1230 1404">Communicating (ACSIS071)</p> <p data-bbox="858 1420 1251 1449"><b>Health and Physical Education</b></p> <p data-bbox="884 1460 1422 1489">Being healthy, safe, and active (ACPPS036 and ACPPS040)</p> <p data-bbox="884 1500 1418 1529">Communicating and interacting for health and wellbeing (ACPPS039)</p> <p data-bbox="858 1579 1182 1608"><b>Design and Technologies</b></p> <p data-bbox="884 1619 1276 1648">Knowledge and Understanding</p> <p data-bbox="884 1659 1382 1688">Technologies and society (ACTDEK010)</p> <p data-bbox="884 1702 1331 1731">Technology concepts (ACTDEK012)</p> <p data-bbox="858 1747 1145 1776"><b>Creating Solutions by:</b></p> <p data-bbox="884 1787 1177 1816">Designing (WATPPS23)</p> <p data-bbox="884 1827 1185 1856">Evaluating (WATPPS25)</p> <p data-bbox="884 1868 1406 1897">Collaborating and managing (WATPPS26)</p>


EXCURSION TOPIC	RECOMMENDED YEAR LEVEL	AUSTRALIAN CURRICULUM LINKS
 <h2>How Sweet It is!</h2> <p>Investigate the role of sugar and insulin in our bodies, and how they affect people with diabetes by measuring the level of glucose in sugary drinks. Students will*:</p> <ul style="list-style-type: none"> <li>✓ Investigate why “Insulin is Key!”</li> <li>✓ Work like a researcher by conducting a simple experiment to measure the glucose in various drinks</li> <li>✓ Record and communicate the results of their experiment</li> <li>✓ Learn about technologies that assist people with type 1 diabetes</li> </ul>	<h3>Year 3</h3>	<p><b>Science Understanding</b>            Biological sciences (ACSSU044)            Chemical sciences (ACSSU46)</p> <p><b>Science Inquiry Skills</b>            Questioning and predicting (ACISIS053)            Planning and conducting (ACISIS054 and ACISIS055)            Processing and analysing data and information (ACISIS215 and ACISIS057)            Communicating (ACISIS060)</p> <p><b>Science as a Human Endeavour</b>            Use and influence of science (ACSHE051)</p>
	<h3>Year 4</h3>	<p><b>Science Understanding</b>            Biological sciences (ACSSU072 &amp; ACSSU073)            Chemical sciences (ACSSU074)</p> <p><b>Science Inquiry Skills</b>            Questioning and predicting (ACISIS064)            Planning and conducting (ACISIS065 &amp; ACISIS066)            Processing and analysing data and information (ACISIS216 and ACISIS068)            Communicating (ACISIS071)</p> <p><b>Science as a Human Endeavour</b>            Use and influence of science (ACSHE062)</p>
	<h3>Year 5</h3>	<p><b>Science Inquiry Skills</b>            Questioning and predicting (ACISIS231)            Planning and conducting (ACISIS086 and ACISIS087)            Processing and analysing data information (ACISIS090 and ACISIS218)            Evaluating (ACISIS091)            Communicating (ACISIS093)</p>
	<h3>Year 6</h3>	<p><b>Science Inquiry Skills</b>            Questioning and predicting (ACISIS231)            Planning and conducting (ACISIS103 and ACISIS104)            Processing and analysing data and information (ACISIS107 and ACISIS221)            Evaluating (ACSUS108)            Communicating (ACISIS110)</p>

\*This excursion topic also includes time to explore the interactive games in our Discovery Centre and a guided tour of a real-life working lab.

EXCURSION TOPIC	RECOMMENDED YEAR LEVEL	AUSTRALIAN CURRICULUM LINKS
 <h2>Delicious DNA</h2> <p>Explore the world of DNA through a hands-on activity where your students will extract the DNA from strawberries. Students will*:</p> <ul style="list-style-type: none"> <li>✓ Learn about the role of DNA in living things</li> <li>✓ Name the components that make up DNA, including learning about the base pairing rule</li> <li>✓ Work like a researcher by following precise instructions for DNA extraction</li> <li>✓ Explore some of the real-life reasons why our researchers extract and study DNA</li> </ul>	<p><b>Year 5</b></p>	<p><b>Science Understanding</b> Biological sciences (ACSSU043)</p> <p><b>Science Inquiry Skills</b> Questioning and predicting (AC SIS231) Planning and conducting (AC SIS086) Processing and analysing data and information (AC SIS218) Evaluating (AC SIS091) Communicating (AC SIS093)</p>
	<p><b>Year 6</b></p>	<p><b>Science Understanding</b> Chemical sciences (ACSSU095)</p> <p><b>Science Inquiry Skills</b> Questioning and predicting (AC SIS232) Planning and conducting (AC SIS103) Processing and analysing data and information (AC SIS221) Evaluating (AC SIS108) Communicating (AC SIS110)</p>

\*This excursion topic also includes time to explore the interactive games in our Discovery Centre and a guided tour of a real-life working lab.

EXCURSION TOPIC	RECOMMENDED YEAR LEVEL	AUSTRALIAN CURRICULUM LINKS
 <h2>Microscopic World</h2> <p>Bacteria are everywhere but do you know the difference between good and bad? In this workshop your students will explore the world of bacteria. Students will:</p> <ul style="list-style-type: none"> <li>✓ Learn about good and bad bacteria through a bacteria bingo game</li> <li>✓ Create their own slides of yoghurt bacteria</li> <li>✓ Learn how to use a microscope</li> <li>✓ Get to look at bacteria through our high-powered microscope</li> </ul>	<p><b>Year 5</b></p>	<p><b>Science Inquiry Skills</b> Questioning and predicting (AC SIS231) Planning and conducting (AC SIS086 and AC SIS087) Processing and analysing data information (AC SIS090 and AC SIS218) Evaluating (AC SIS091) Communicating (AC SIS093)</p>
	<p><b>Year 6</b></p>	<p><b>Science Inquiry Skills</b> Questioning and predicting (AC SIS232) Planning and conducting (AC SIS103 and AC SIS104) Processing and analysing data information (AC SIS107 and AC SIS221) Evaluating (AC SIS108) Communicating (AC SIS110) (AC SHE062)</p>

EXCURSION TOPIC	RECOMMENDED YEAR LEVEL	AUSTRALIAN CURRICULUM LINKS
 <h3>Meet a Researcher</h3> <p>Meet a researcher allows your students to find out what a career in science and STEM really looks like from one of The Kids real-life researchers. Each excursion workshop includes a talk on the researcher's journey, what their current research is and a small hands-on activity to demonstrate their research. Each presentation will be unique to your class.</p> <ul style="list-style-type: none"> <li>✓ Learn about the researcher's journey.</li> <li>✓ Hear about their research.</li> <li>✓ Complete an activity that relates to the research.</li> </ul>	<b>Year 5</b>	<b>N/A</b>
	<b>Year 6</b>	<b>N/A</b>



**\*Most excursion topics also includes time to explore the interactive games in our **Discovery Centre** and a guided tour of a **real-life working lab**.**



For more information or any other enquiries, visit our [website](#) or send us an [email](#).

We hope to welcome you on an excursion to The Kids Research Institute Australia soon!