

## Smart Farming

**Your Mission:** You are agri-tech pioneers designing farms of the future. Your challenge: blend tradition with technology to feed more people with fewer resources — while protecting the land for generations to come.

### Pre-Visit Activity

**Learning Goal:** Understand real smart-farm tools, the problems they solve, and the careers behind them.

<b>Hook</b>	5 mins	<b>Class poll:</b> “What’s one ‘smart’ tool you think farms use today?”
<b>Roving Agriculture Reporter</b>	40-50 mins	<p><i>ABC Landline</i> is running a special on <b>next-gen Australian farms</b>. They need a <b>90-second social-video script or 150-word mini-feature</b> on a breakthrough smart-farm - <i>and the producer has just called you!</i></p> <p>Choose <b>ONE</b> story to cover:</p> <ul style="list-style-type: none"> <li>High-tech dairy farm: <a href="https://www.youtube.com/watch?v=tLjl_eixBQk">https://www.youtube.com/watch?v=tLjl_eixBQk</a> (3:47)</li> <li>High-tech orchards: <a href="https://www.youtube.com/watch?v=Kle7lhBNtF8">https://www.youtube.com/watch?v=Kle7lhBNtF8</a> (1:59)</li> <li>Smart Vegetable Farming in Qld: <a href="https://www.youtube.com/watch?v=zRk-JwxjXjl">https://www.youtube.com/watch?v=zRk-JwxjXjl</a> (3:42)</li> <li>Smart Avocado Farming in Qld: <a href="https://www.youtube.com/watch?v=DPhMCvYg1-k">https://www.youtube.com/watch?v=DPhMCvYg1-k</a> (3:33)</li> <li>Modern Agri-Technologies in SA: <a href="https://www.youtube.com/watch?v=9e09PUAnDGg">https://www.youtube.com/watch?v=9e09PUAnDGg</a> (2:55)</li> <li>Victoria’s on-farm IoT trial: <a href="https://www.youtube.com/watch?v=s_Mvsi1nQrl">https://www.youtube.com/watch?v=s_Mvsi1nQrl</a> (4:43)</li> </ul> <p>Your story should cover:</p> <ol style="list-style-type: none"> <li><b>The headline:</b> In one short sentence, what challenge is this farm solving?</li> <li><b>“How it works” sound-bite:</b> Name the <i>smart</i> tool or idea and explain how it fixes the problem (one sentence).</li> <li><b>Data that drives decisions:</b> Identify one data-stream the farmers track and the decision it improves.</li> <li><b>Impact snapshot:</b> Give <i>one</i> environmental or animal-welfare benefit <b>and</b> one possible trade-off versus traditional methods.</li> </ol> <p><b>Jobs shout out:</b> Pick two roles you spotted (or inferred) on this farm. List one key skill each role needs <i>and</i> end with a “we’re hiring” plug to lure new talent.</p> <p><b>Create either:</b></p> <ul style="list-style-type: none"> <li><b>Option A:</b> 150-word news brief or social-caption + hashtags.</li> <li><b>Option B:</b> 2–3-slide infographic or storyboard for a vertical video.</li> </ul> <p><i>Submit to your teacher and bring it to Day 1 of the Smart Farming program.</i></p>
<b>Reflection</b>	5 mins	<ul style="list-style-type: none"> <li><b>Discussion:</b> “One ag-tech role I’d consider and why.”</li> </ul>

## Post-Visit Activity

**Learning Goal:** Map a skills pathway using internships that build data-driven, sustainable farming capabilities.

<b>Analysis Activity</b>	30 mins	<p><b>Breaking news!</b></p> <p>Your creative Smart-Farming prototype just took out first prize at the <b>Future Fields 2035 Agriculture Show</b>. As a reward, you’ve been short-listed for a paid, one-year <i>rotating internship</i> - four placements, four different agriculture employers.</p> <ul style="list-style-type: none"> <li>Using the AgCareerStart “<i>Careers in Farming</i>” Smart Farming Cards (<b>refer to handout on our website</b>)</li> </ul> <p><b>Your mission</b></p> <ol style="list-style-type: none"> <li><b>Choose four placements</b> that will build on what you mastered in the Smart Farming program <i>and</i> fill the biggest gaps in your current skill set.</li> <li><b>Sequence them</b> in the order you think makes the most sense for your learning curve.</li> <li>For <b>each</b> placement, write <b>2-3 sentences</b> answering: <ol style="list-style-type: none"> <li><i>Why this role?</i> Which Farming skill or area of expertise will you deepen here?</li> <li><i>New skill to gain:</i> What fresh tool, qualification or mindset will this placement add?</li> </ol> </li> <li>Finish with a <b>one-sentence rationale</b> for the overall order you picked—why that progression turns you into a future-ready ag professional.</li> </ol>
<b>Critical Thinking</b>	10 mins	<p><b>Questions</b></p> <ol style="list-style-type: none"> <li><b>Data into action:</b> In the Smart Farming program you turned live soil-moisture data into irrigation decisions. Which of your four placements best refines that <i>data-to-decision</i> skill, and how?</li> <li><b>Triple bottom line:</b> You balanced yield, cost and environmental impact during the farm simulation game. Which placement will most stretch your ability to juggle those three levers on a real farm?</li> </ol>
<b>Creative Challenge</b>	30 mins	<p>Create a one-page “Internship Roadmap” (infographic, slide, mind-map or 250-word write-up).</p>