

Te aroturuki kokenga i roto i te akoranga | Monitoring progress in learning

Schools use multiple sources of information to support kaiako and ākonga to improve teaching and learning. Effective analysis of PAT data will contribute to developing a more comprehensive picture of progress and achievement.

Monitoring ākonga progress over time, and the discussion it promotes, allows teachers and leaders to do several things:

LEADERSHIP: Evaluate the health of teaching programmes or the implementation of PLD strategies and identify the strengths and needs to inform future planning.

TEACHERS: Identify the strengths and needs of students' subject knowledge, skills, and understandings and reflect on their own practice.

The PATs, STAR and STwE are standardised, reliable assessments that provide a measure of ākonga knowledge and skills when working independently. PAT assessment information contributes evidence towards understanding the position and progress ākonga are making against their expected year level.

Key points include:

- Every test is plotted on the same scale, therefore individual or cohort progress can be plotted from Year 3 to Year 11 (depending on the assessment).
- Each subject has its own scale for measuring the difficulty of the questions and ākonga progress and achievement.
- An equal interval scale meaning year level benchmarks can be measured from any point.
- A scale score is a guide. Progress and achievement using scale scores can be reliably identified within a range (margin of error), not a single fixed mark.
- PAT assessment norms were calculated in Term 1. (NB: STwE is Term 2).

Progress for ākonga can be considered using scale scores. The tables below indicate the average position on the scale in Term 1 for each year group and the average progress difference between two timepoints 12 months apart.

Assessment	Purpose	Scale Score Progress																																		
PAT Pāngarau PAT Mathematics Revised 2024 Years 3–11	PAT Pāngarau PAT Mathematics supports kaiako to ascertain the level of progress ākonga are making in relation to big mathematical and statistical ideas. Pāngarau content areas: Number, Algebra, Measurement, Space, Statistics, and Probability.	PAT Pāngarau Average Scale Score—Term 1 <table border="1"> <thead> <tr> <th>Yr.3</th> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> <th>Yr.10</th> <th>Yr.11</th> </tr> </thead> <tbody> <tr> <td>25.4</td> <td>32.5</td> <td>39.7</td> <td>45.8</td> <td>49.1</td> <td>53.6</td> <td>57.8</td> <td>62.4</td> <td>*</td> </tr> </tbody> </table> Average Progress <table border="1"> <thead> <tr> <th>Yr.3-4</th> <th>Yr.4-5</th> <th>Yr.5-6</th> <th>Yr.6-7</th> <th>Yr.7-8</th> <th>Yr.8-9</th> <th>Yr.9-10</th> <th>Yr.10-11</th> </tr> </thead> <tbody> <tr> <td>7.1</td> <td>7.2</td> <td>6.1</td> <td>3.3</td> <td>4.5</td> <td>4.2</td> <td>4.6</td> <td>*</td> </tr> </tbody> </table> PAT Pāngarau norms 2024	Yr.3	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10	Yr.11	25.4	32.5	39.7	45.8	49.1	53.6	57.8	62.4	*	Yr.3-4	Yr.4-5	Yr.5-6	Yr.6-7	Yr.7-8	Yr.8-9	Yr.9-10	Yr.10-11	7.1	7.2	6.1	3.3	4.5	4.2	4.6	*
Yr.3	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10	Yr.11																												
25.4	32.5	39.7	45.8	49.1	53.6	57.8	62.4	*																												
Yr.3-4	Yr.4-5	Yr.5-6	Yr.6-7	Yr.7-8	Yr.8-9	Yr.9-10	Yr.10-11																													
7.1	7.2	6.1	3.3	4.5	4.2	4.6	*																													
PAT Pānui PAT Reading Comprehension Online revised 2024 Paper revised 2025 Years 4–10	PAT Pānui PAT Reading Comprehension supports kaiako to ascertain the level of progress ākonga are making in constructing meaning from a range of texts. Text types: Narrative, recount, reports, persuasive, poetry, explanation, procedural, opinion, biography. Question types: R = Retrieval, LI = Local Inference, CI = Complex Inference, I&I = Interpret & Integrate, C&E = Critique & Evaluate	PAT Pānui Average mean scale score <table border="1"> <thead> <tr> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> <th>Yr.10</th> </tr> </thead> <tbody> <tr> <td>29.9</td> <td>38.9</td> <td>46.9</td> <td>54.5</td> <td>61.1</td> <td>67.3</td> <td>72.8</td> </tr> </tbody> </table> Average progress <table border="1"> <thead> <tr> <th>Yr.4-5</th> <th>Yr.5-6</th> <th>Yr.6-7</th> <th>Yr.7-8</th> <th>Yr.8-9</th> <th>Yr.9-10</th> </tr> </thead> <tbody> <tr> <td>9.0</td> <td>8.0</td> <td>7.6</td> <td>6.6</td> <td>6.2</td> <td>5.5</td> </tr> </tbody> </table> PAT Pānui norms March 2026	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10	29.9	38.9	46.9	54.5	61.1	67.3	72.8	Yr.4-5	Yr.5-6	Yr.6-7	Yr.7-8	Yr.8-9	Yr.9-10	9.0	8.0	7.6	6.6	6.2	5.5								
Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10																														
29.9	38.9	46.9	54.5	61.1	67.3	72.8																														
Yr.4-5	Yr.5-6	Yr.6-7	Yr.7-8	Yr.8-9	Yr.9-10																															
9.0	8.0	7.6	6.6	6.2	5.5																															

Assessment	Purpose	Scale Score Progress																														
PAT Reading Vocabulary Years 4–10	PAT Reading Vocabulary supports kaiako to ascertain ākonga ability to understand the words they read by choosing synonyms that best represent a key word presented in a short sentence.	<p>PAT Reading Vocabulary</p> <p>Average Scale Score—Term 1</p> <table border="1"> <thead> <tr> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> <th>Yr.10</th> </tr> </thead> <tbody> <tr> <td>32.4</td> <td>40.9</td> <td>48.7</td> <td>55.0</td> <td>60.1</td> <td>65.7</td> <td>70.5</td> </tr> </tbody> </table> <p>Average Progress</p> <table border="1"> <thead> <tr> <th>Yr.4–5</th> <th>Yr.5–6</th> <th>Yr.6–7</th> <th>Yr.7–8</th> <th>Yr.8–9</th> <th>Yr.9–10</th> </tr> </thead> <tbody> <tr> <td>8.5</td> <td>7.8</td> <td>6.3</td> <td>5.1</td> <td>5.6</td> <td>4.8</td> </tr> </tbody> </table> <p><i>Scale score (patv) from Table 6, p.34, Teacher Manual</i></p>	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10	32.4	40.9	48.7	55.0	60.1	65.7	70.5	Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	Yr.9–10	8.5	7.8	6.3	5.1	5.6	4.8				
Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10																										
32.4	40.9	48.7	55.0	60.1	65.7	70.5																										
Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	Yr.9–10																											
8.5	7.8	6.3	5.1	5.6	4.8																											
PAT Listening Comprehension Years 3–10	PAT Listening Comprehension supports kaiako to ascertain ākonga comprehension of texts read to them. Kaiako obtain information on ākonga ability to construct meaning that is independent of their ability to decode printed word. Text types: Narrative, information, poetry Question types: R = Retrieval, LI = Local Inference, GI = Global Inference	<p>PAT Listening Comprehension</p> <p>Average Scale Score—Term 1</p> <table border="1"> <thead> <tr> <th>Yr.3</th> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> <th>Yr.10</th> </tr> </thead> <tbody> <tr> <td>47.3</td> <td>50.3</td> <td>52.1</td> <td>54.4</td> <td>56.1</td> <td>58.5</td> <td>63.3</td> <td>65.4</td> </tr> </tbody> </table> <p>Average Progress</p> <table border="1"> <thead> <tr> <th>Yr.3–4</th> <th>Yr.4–5</th> <th>Yr.5–6</th> <th>Yr.6–7</th> <th>Yr.7–8</th> <th>Yr.8–9</th> <th>Yr.9–10</th> </tr> </thead> <tbody> <tr> <td>3.0</td> <td>1.8</td> <td>2.3</td> <td>1.7</td> <td>2.4</td> <td>4.8</td> <td>2.1</td> </tr> </tbody> </table> <p><i>Scale score (patl) from Table 6, p.37, Teacher Manual</i></p>	Yr.3	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10	47.3	50.3	52.1	54.4	56.1	58.5	63.3	65.4	Yr.3–4	Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	Yr.9–10	3.0	1.8	2.3	1.7	2.4	4.8	2.1
Yr.3	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10																									
47.3	50.3	52.1	54.4	56.1	58.5	63.3	65.4																									
Yr.3–4	Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	Yr.9–10																										
3.0	1.8	2.3	1.7	2.4	4.8	2.1																										
PAT Punctuation and Grammar Years 4–10	PAT Punctuation and Grammar supports kaiako to ascertain ākonga ability to recognise and use the grammatical conventions of standard NZ English, including punctuation, in context. Question types: P = Punctuation, GU = Grammar Use, GK = Grammar Knowledge	<p>PAT Punctuation and Grammar</p> <p>Average Scale Score—Term 1</p> <table border="1"> <thead> <tr> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> <th>Yr.10</th> </tr> </thead> <tbody> <tr> <td>46.0</td> <td>50.6</td> <td>54.4</td> <td>57.6</td> <td>60.4</td> <td>62.9</td> <td>65.1</td> </tr> </tbody> </table> <p>Average Progress</p> <table border="1"> <thead> <tr> <th>Yr.4–5</th> <th>Yr.5–6</th> <th>Yr.6–7</th> <th>Yr.7–8</th> <th>Yr.8–9</th> <th>Yr.9–10</th> </tr> </thead> <tbody> <tr> <td>4.6</td> <td>3.8</td> <td>3.2</td> <td>2.8</td> <td>2.5</td> <td>2.2</td> </tr> </tbody> </table> <p><i>Scale score (patpg) from Table 8, p.38, Teacher Manual</i></p>	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10	46.0	50.6	54.4	57.6	60.4	62.9	65.1	Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	Yr.9–10	4.6	3.8	3.2	2.8	2.5	2.2				
Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	Yr.10																										
46.0	50.6	54.4	57.6	60.4	62.9	65.1																										
Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	Yr.9–10																											
4.6	3.8	3.2	2.8	2.5	2.2																											
STAR Reading Test Years 3–9	STAR Reading is designed to supplement the assessments kaiako make every day. STAR assesses a range of reading skills that correspond closely to the main components of reading skills as outlined in <i>The Literacy Learning Progressions</i> . Sub-tests: Word Recognition, Sentence Comprehension, Paragraph Comprehension, Vocabulary. Additional sub-tests (Years 7–9): The Language of Advertising, Styles of Writing.	<p>STAR Reading</p> <p>Average Scale Score—Term 1</p> <table border="1"> <thead> <tr> <th>Yr.3</th> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> </tr> </thead> <tbody> <tr> <td>53.8</td> <td>81.4</td> <td>97.6</td> <td>109.0</td> <td>117.9</td> <td>125.2</td> <td>133.7</td> </tr> </tbody> </table> <p>Average Progress</p> <table border="1"> <thead> <tr> <th>Yr.3–4</th> <th>Yr.4–5</th> <th>Yr.5–6</th> <th>Yr.6–7</th> <th>Yr.7–8</th> <th>Yr.8–9</th> </tr> </thead> <tbody> <tr> <td>27.6</td> <td>16.2</td> <td>11.4</td> <td>8.9</td> <td>7.3</td> <td>8.5</td> </tr> </tbody> </table> <p><i>Scale Score (STAR) from Table 6, p.33, Teacher Manual</i></p>	Yr.3	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9	53.8	81.4	97.6	109.0	117.9	125.2	133.7	Yr.3–4	Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9	27.6	16.2	11.4	8.9	7.3	8.5				
Yr.3	Yr.4	Yr.5	Yr.6	Yr.7	Yr.8	Yr.9																										
53.8	81.4	97.6	109.0	117.9	125.2	133.7																										
Yr.3–4	Yr.4–5	Yr.5–6	Yr.6–7	Yr.7–8	Yr.8–9																											
27.6	16.2	11.4	8.9	7.3	8.5																											
Junior Science: Thinking with Evidence (STwE Junior) Years 4–6	Science Thinking with Evidence is designed to assess how well ākonga use evidence to think about scientific contexts and issues using contexts that are provided in the assessments. It is intended as a support tool for teaching scientific thinking across the science curriculum. Nature of Science sub-strands: Understanding about Science. Investigating in Science, Communicating in Science, Participating and Contributing.	<p>Junior Science: Thinking with Evidence</p> <p>Average Scale Score—March</p> <table border="1"> <thead> <tr> <th>Yr.4</th> <th>Yr.5</th> <th>Yr.6</th> </tr> </thead> <tbody> <tr> <td>41.3</td> <td>46.4</td> <td>50.0</td> </tr> </tbody> </table> <p>Average Progress</p> <table border="1"> <thead> <tr> <th>Yr.4–5</th> <th>Yr.5–6</th> </tr> </thead> <tbody> <tr> <td>5.1</td> <td>3.6</td> </tr> </tbody> </table> <p><i>Junior and Senior Science Thinking with Evidence each have their own scale.</i></p>	Yr.4	Yr.5	Yr.6	41.3	46.4	50.0	Yr.4–5	Yr.5–6	5.1	3.6																				
Yr.4	Yr.5	Yr.6																														
41.3	46.4	50.0																														
Yr.4–5	Yr.5–6																															
5.1	3.6																															
Science: Thinking with Evidence (STwE) Years 7–10		<p>Science: Thinking with Evidence</p> <p>Average Scale Score—June</p> <table border="1"> <thead> <tr> <th>Yr.7</th> <th>Yr.8</th> <th>Yr.9</th> <th>Yr.10</th> </tr> </thead> <tbody> <tr> <td>49.7</td> <td>53.2</td> <td>55.8</td> <td>60.5</td> </tr> </tbody> </table> <p>Average Progress</p> <table border="1"> <thead> <tr> <th>Yr.7–8</th> <th>Yr.8–9</th> <th>Yr.9–10</th> </tr> </thead> <tbody> <tr> <td>3.5</td> <td>2.6</td> <td>4.7</td> </tr> </tbody> </table> <p><i>Junior and Senior Science Thinking with Evidence each have their own scale. Scale score (STwE) from Table 8 p.46, Teacher Manual</i></p>	Yr.7	Yr.8	Yr.9	Yr.10	49.7	53.2	55.8	60.5	Yr.7–8	Yr.8–9	Yr.9–10	3.5	2.6	4.7																
Yr.7	Yr.8	Yr.9	Yr.10																													
49.7	53.2	55.8	60.5																													
Yr.7–8	Yr.8–9	Yr.9–10																														
3.5	2.6	4.7																														