# NCEA Level 1 Achievement Standards in Science, Chemistry & Biology, Physics and Earth & Space Science, and Agricultural & Horticultural Science

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| **Science** | **Science 1.1** AS 91920Internal 5 cr  Demonstrate understanding of a science-informed response to a local issue  <https://ncea.education.govt.nz/science/science/1/1?view=standard> | **Science 1.2** AS 91921 Internal 5 cr  Demonstrate understanding of the use of a range of scientific investigative approaches in a context  <https://ncea.education.govt.nz/science/science/1/2?view=standard> | **Science 1.3** AS 91922 External 5 cr  Describe features of science that have contributed to the development of a science idea in a local context  <https://ncea.education.govt.nz/science/science/1/3?view=standard> | **Science 1.4** AS 91923 External 5 cr  Demonstrate understanding of science-related claims in communicated information  <https://ncea.education.govt.nz/science/science/1/4?view=standard> |
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| **Chemistry and Biology** | **Chem & Bio 1.1** AS 92020 Internal 5 cr  Demonstrate understanding of the relationship between a microorganism and the environment  <https://ncea.education.govt.nz/science/chemistry-and-biology/1/1?view=standard> | **Chem & Bio 1.2** AS 92021 Internal 6 cr  Demonstrate understanding of a chemical reaction in a specific context  <https://ncea.education.govt.nz/science/chemistry-and-biology/1/2?view=standard> | **Chem & Bio 1.3** AS 92022 External 5 cr  Demonstrate understanding of genetic variation in relation to an identified characteristic  <https://ncea.education.govt.nz/science/chemistry-and-biology/1/3?view=standard> | **Chem & Bio 1.4** AS 92023 External 4 cr  Demonstrate understanding of how the properties of chemicals inform their use in a specific context  <https://ncea.education.govt.nz/science/chemistry-and-biology/1/4?view=standard> |
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| **Physics and**  **Earth & Space Science** | **Physics & ESS 1.1** AS 92044 Internal 5 cr  Demonstrate understanding of human-induced change within the Earth system  <https://ncea.education.govt.nz/science/physics-earth-and-space-science/1/1?view=standard> | **Physics & ESS 1.2** AS 92045 Internal 5 cr  Demonstrate understanding of a physical phenomenon through investigation  <https://ncea.education.govt.nz/science/physics-earth-and-space-science/1/2?view=standard> | **Physics & ESS 1.3** AS 92046 External 5 cr  Demonstrate understanding of the effect on the Earth of interactions between the Sun and the Earth-Moon system  <https://ncea.education.govt.nz/science/physics-earth-and-space-science/1/3?view=standard> | **Physics & ESS 1.4** AS 92047 External 5 cr  Demonstrate understanding of energy in a physical system  <https://ncea.education.govt.nz/science/physics-earth-and-space-science/1/4?view=standard> |
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| **Agricultural and Horticultural Science** | **Ag & Hort 1.1** AS 91928 Internal 6 cr  Demonstrate understanding of a life process and how it is managed in a primary production system  <https://ncea.education.govt.nz/science/agricultural-and-horticultural-science/1/1?view=standard> | **Ag & Hort 1.2** AS 91929 Internal 5 cr  Demonstrate understanding of factors that influence the purpose and location of primary production  <https://ncea.education.govt.nz/science/agricultural-and-horticultural-science/1/2?view=standard> | **Ag & Hort 1.3** AS 91930 External 5 cr  Demonstrate understanding of how soil properties are managed in a primary production system  <https://ncea.education.govt.nz/science/agricultural-and-horticultural-science/1/3?view=standard> | **Ag-& Hort 1.3** AS 91931 External 4 cr  Demonstrate understanding of sustainability considerations that influence primary production management practices  <https://ncea.education.govt.nz/science/agricultural-and-horticultural-science/1/4?view=standard> |
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