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| **Learning Intention**Describe and predict the effect of environmental changes on individual living things* Describe and predict the effect of environmental changes on individual living things
* Explain how scientific knowledge helps to solve problems and make informed decisions
* Explain how scientific knowledge helps us identify historical and cultural contributions
* Identify variables to be changed and measured when planning methods
* Collect, organise and interpret data
* Construct multi-model texts to communicate ideas, methods and findings
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| **Success Criteria** The growth and survival of living things are affected by physical conditions of their [environment](http://www.australiancurriculum.edu.au/glossary/popup?a=S&t=environment) [(ACSSU094)](http://www.australiancurriculum.edu.au/curriculum/contentdescription/ACSSU094)Science involves testing predictions by gathering [data](http://www.australiancurriculum.edu.au/glossary/popup?a=S&t=data) and using [evidence](http://www.australiancurriculum.edu.au/glossary/popup?a=S&t=evidence) to develop explanations of events and phenomena and reflects historical and cultural contributions [(ACSHE098)](http://www.australiancurriculum.edu.au/curriculum/contentdescription/ACSHE098)  |
| **Below** | **Expected** | **Above** |
| Identify the growth and survival of living things | Identify and explain the growth and survival of living things  | Identify and explain in depth the growth and survival of living things |
| Limited explanations decribing how microorganisms are affected by physical conditions of their [environment](http://www.australiancurriculum.edu.au/glossary/popup?a=S&t=environment) | Explain how microorganisms are affected by physical conditions of their [environment](http://www.australiancurriculum.edu.au/glossary/popup?a=S&t=environment) | Makes detailed explanations describing how microorganisms Are affected by physical conditions of their [environment](http://www.australiancurriculum.edu.au/glossary/popup?a=S&t=environment) |
| Describe some ways in which microorganisms affect our lives | Describe ways in which microorganisms affect our lives | Describe and analyse ways in which microorganisms affect our lives |
| Make some obvious predictions by gathering data and using evidence to develop explanations | Make predictions by gathering data and using evidence to develop explanations | Make predictions, observations and comparisons byGathering data and using evidence to develop explanations |