

**Assessment Schedule – 2006****Science: Describe the factors and processes involved in the evolution of New Zealand's plants and animals (90772)****Evidence Statement**

Question	Achievement	Achievement with merit	Achievement with excellence
1(a) (b) (c) (d)	E A B G (THREE required)		
2 (a)	One valid response required.  Name of Biological: different founder populations / different selection pressures. <b>OR</b> Geological: geographical isolation factor / different environments.		
2 (b)	Explanation valid for chosen factor, eg: Different founder populations lead to different genes etc. Link given but not explained.	Explanation valid for chosen factor, eg: Different founder populations lead to different genes etc. Valid link required.	
3 (a)	Gondwana		
3 (b)	Ice Age / Kaikoura Orogeny		
3 (c)	Link given but not explained.	Separation of the colder south from the warmer north <b>AND</b> different selection pressures.	
3 (d)	NZ never had social bees  Birds, bats as pollinators.		
4 (a)	No Cook Strait.	No Cook Strait, separated populations into Northern group and Southern group <b>AND</b> isolation.	
4 (b)	Mutations <b>OR</b> genetic drift <b>OR</b> genetic variation in the founder population <b>OR</b> genetic isolation <b>OR</b> selective breeding.	Mutations <b>AND</b> one other of genetic variation in the founder population <b>AND</b> / <b>OR</b> genetic isolation <b>AND</b> / <b>OR</b> genetic drift <b>AND/OR</b> selective breeding (one key link required).	Mutations <b>AND</b> genetic variation in the founder population <b>AND</b> genetic isolation <b>AND</b> genetic drift <b>AND</b> / <b>OR</b> selective breeding (key links required).
5	Founder effect of common ancestor.	Founder effect evolved different areas <b>AND</b> different selection pressures, plains and island, <b>OR</b> different mutations. (One key link required.)	Founder effect evolved different areas <b>AND</b> different selection pressures, plains and island, <b>AND</b> different mutations. (Key links required.)

**Judgement Statement**

**Science: Describe the factors and processes involved in the evolution of New Zealand's plants and animals (90772)**

<b>Achievement</b>	<b>Achievement with Merit</b>	<b>Achievement with Excellence</b>
SIX questions answered correctly. Minimum of $6 \times A$	SIX questions answered correctly, including at least THREE at Merit level. Minimum of $3 \times M + 3 \times A$	SIX questions answered correctly, including at least ONE at Excellence level and at least TWO at Merit level. Minimum of $1 \times E + 2 \times M + 3 \times A$