

Achievement Standard

Subject Reference Human Biology 1.4

Title Describe how humans respond to pathogens

Level 1 **Credits** 2 **Assessment** External

Subfield Science

Domain Biology

Status Registered **Status date** 5 November 2007

Planned review date 28 February 2009 **Date version published** 5 November 2007

This achievement standard involves the description of how humans respond to pathogens.

Achievement Criteria

| Achievement | Achievement with Merit | Achievement with Excellence |
|---|--|--|
| <ul style="list-style-type: none"> • Describe how humans respond to pathogens. | <ul style="list-style-type: none"> • Explain how humans respond to pathogens. | <ul style="list-style-type: none"> • Discuss how humans respond to pathogens. |

Explanatory Notes

1 Assessment will be selected from:

- response mechanisms that:
 - prevent entry of pathogens – skin, mucus, cilia, acid, sweat, blood clots
 - deal with pathogens after entry – white blood cells (production sites, functioning), inflammatory response
 - support immunity (natural, acquired, active, passive) – antibodies (production, functioning), role of the circulation system, role of the lymphatic system
- symptoms of pathogenic invasion
- methods for reducing spread.

2 Terms:

- *Describe* requires the student to define, use annotated diagrams, give characteristics of, or an account of.
- *Explain* requires the student to provide a reason as to how or why something occurs.
- *Discuss* requires the student to show understanding by linking biological ideas. It may involve students in elaborating, applying, justifying, relating, evaluating, comparing and contrasting, and analysing.

Quality Assurance

- 1 Providers and Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against achievement standards.
- 2 Accredited providers and Industry Training Organisations assessing against achievement standards must engage with the moderation system that applies to those achievement standards.

Accreditation and Moderation Action Plan (AMAP) reference

0226