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| *Human Perspectives ATAR Units 3 & 4* |

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Worksheet 7.1 Pathogens and non-specific immunity

Using the information in Chapter 7 of *Human Perspectives ATAR Units 3 & 4* and other sources available to you, complete the following activities.

**1** Compare and contrast bacteria and viruses.

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**2** Draw a line to match the correct part of the body to the description of the passive defences (external defences) in that area.

**Part of the body Passive defences**

Mouth cavity Cerumen inhibits bacterial growth

Eyes Acidic juices kill many micro-organisms

Ear Acidic secretions inhibit growth of pathogens

Urethra Mucous layer traps micro-organisms

Stomach Cleansed by tears which also contain chemicals inhibiting bacterial growth

Mouth cavity Mucous membrane traps micro-organisms and the area is cleaned by saliva

Anus An impervious barrier

Trachea and bronchi Urine flow prevents bacterial growth

Nasal cavity Hairs and mucus trap micro-organisms

Vagina Mucous membrane traps micro-organisms

**3** Design a poster that could be used throughout the school, titled ‘The importance of washing your hands’. The purpose of the poster is to educate students about basic hygiene.