Preparing to teach this sequence • Year 7 • Ecosystems beyond Earth

**Year 9**

**Year 7**

# Gather the resources for the sequence

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Resource | Lesson in which this resource is required | | | | | |
|  | **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 4A** | **Lesson 5** |
| Individual science notebook (digital or hard-copy) | X | X | X | X | X | X |
| Equipment to enable the viewing of online resources including images, videos and websites | X | X | X | X | X | X |
| Ecosystems beyond Earth Resource PowerPoint | X | X | X | X | X | X |
| Access to spreadsheet software (i.e.Excel) |  |  | X |  |  |  |
| Area for food tasting (i.e. school lunch area) | X |  |  |  |  |  |
| Paper plates (per group) | X |  |  |  |  |  |
| Samples of small leafy foods (for example lettuce varieties, kale, coriander, basil) (per group) | X |  |  |  |  |  |
| Student water bottles (optional) | X |  |  |  |  |  |
| Sticky notes |  | X |  |  |  | X |
| Whiteboard and markers |  | X |  |  |  |  |
| 8 long skewers (per group) |  | X |  |  |  |  |
| Masking or sticky tape (per group) |  | X |  |  |  |  |
| Well-lit area |  | X |  |  |  |  |
| Coloured cellophane (red, blue, green) (per group) |  | X |  |  |  |  |
| Water |  | X |  |  | X |  |
| Seedling lettuce plants or duckweed plants (minimum 2/group) |  | X |  |  |  |  |
| Soil for the plants to grow in |  | X |  |  |  |  |
| Small containers to hold the seedlings (i.e.egg cartons) (minimum 2 per group) |  | X |  |  |  |  |
| Dish to contain water under the plants (per group) |  | X |  |  |  |  |
| Edible plant (lettuce seedling) with roots, from previous lesson – as a demonstration or for use in groups |  |  | X |  |  |  |
| Cutting board (demonstration or per group) |  |  | X |  |  |  |
| Knife (demonstration or per group) |  |  | X |  |  |  |
| Scales (demonstration or per group) |  |  | X |  |  |  |
| Butcher/A3 paper (per group) |  |  |  | X |  | X |
| Bicarbonate soda (sprinkled over two of the random objects) – refer to Lab Tech notes |  |  |  |  | X |  |
| 5 random objects for testing (possibilities include shell, stone, old shoe, plastic toy, fruit, old sandwich) (per group) – refer to Lab Tech notes |  |  |  |  | X |  |
| 5 plastic bags (per group) |  |  |  |  | X |  |
| 5 x swabs or tissues (per group) |  |  |  |  | X |  |
| 6 x 50 mL beakers (per group) |  |  |  |  | X |  |
| Universal indicator (per group) |  |  |  |  | X |  |
| Permanent marker (per group) |  |  |  |  | X |  |
| Safety glasses and lab coat (per student) |  |  |  |  | X |  |
| Gloves (per student) |  |  |  |  | X |  |
| Optional: materials to build model food pod |  |  |  |  |  | X |
|  | **Lesson 1** | **Lesson 2** | **Lesson 3** | **Lesson 4** | **Lesson 4A** | **Lesson 5** |
| Australian food web Resource cards (per group) | X |  |  | X |  |  |
| Testing food preferences Resources sheet (per student) | X |  |  |  |  |  |
| Testing plant growth Resource sheet (per student) |  | X |  |  |  |  |
| Edible plant Data resource (per student) |  |  |  |  |  |  |
| Selecting plants Resource sheet (per student) |  |  |  |  |  |  |
| Biosecurity testing Resource sheet (per student) |  |  |  |  | X |  |
|  |  |  |  |  |  |  |