**Manjimup Senior High School**

**Australian Curriculum**

**Science in Practice Year 11 – Task 2**

**Identifying unknown substances as acidic, basic or neutral**

**Part A – Background research and formulation of a research question.**

Produce an annotated bibliography of sources that address the research areas listed. List three useful and relevant sources for each.

Formulate a testable research question requiring the collection of pH data on certain products, materials or solutions.

1. **What is the role of indicators? What chemical and plant-based indicators are there?**

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

1. **How can different acid reactions be used to classify reactions as acidic, basic or neutral?**

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

1. **What commonly available products, materials or solutions are suitable for investigating pH? What have other students investigated?**

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

|  |
| --- |
| Source title: |
| Summary of important points: |
| Source link: |

1. **Draft two different research questions requiring the collection of pH data on certain products, materials or solutions.**

|  |
| --- |
| Research Question 1: |

|  |
| --- |
| Research Question 2: |