

AH Unit 3.3
***Critical evaluation of
biological research***

What should experimental
design be testing?

How should the experiment be designed to
ensure validity and reliability?

Describe how selection bias can be avoided

When analysing data what is the:

1. Mean?

2. Median?

3. Mode?

4. Standard deviation?

5. Range?

What should conclusions refer to?

- 1.
- 2.
- 3.
- 4.

Describe what
should be in the
following
sections of a
report

1. Abstract

2. Introduction

3. Method/procedures

What do confidence or error bars show?

Explain the difference between correlation and
causation and why they need consideration when
drawing conclusions

What does a statistically significant result indicate?