Academic Scientific Journal Articles

☐ Article published in an international peer-reviewed scientific journal

☐ Article reports scientific research as opposed to opinion, commentary or editorial review

☐ Purpose of the article is to provide analysis of a specific research problem as opposed to an overview of the broader issues

☐ Articles incorporate highly technical language and can be difficult to fully understand and evaluate without a scientific background

☐ Article is structured into clearly identifiable sections

☐ Authors are easily identified and academic associations are prominently listed

☐ Abstract provides a concise summary of research conducted and conclusions drawn

☐ Introduction details purpose of the research and clearly states research goals

☐ Article discusses previously published research conducted on the topic

☐ Research methodology, including an overview of data collection methods, is included

☐ Research methodology is based on established models and includes a mathematical / statistical analysis of results

☐ Research conclusions are clearly stated with implications and future research directions discussed

☐ List of references is extensive and can be used to identify original source data

☐ Contains extensive in-text citations

☐ Charts / graphs / formulae are included to back up results

☐ References may be difficult to track down without access to library databases
## Characteristics of Scientific Literature - Checklist

### Popular Science Articles

- [ ] Article is written from a general scientific point of view making it accessible to a wider audience
- [ ] Title / headline is designed to attract reader attention
- [ ] Article is written to inform / comment / provide an overview of the wider topic
- [ ] Author details / by-lines are usually clearly stated, however author affiliations / backgrounds / agendas need to be fully considered
- [ ] Article is based on scientific information, but can include conclusions that are influenced by opinion and editorial commentary
- [ ] In-text citations are not typically included
- [ ] Article does not typically provide a comprehensive list of references which makes it difficult to identify where reported data / original research comes from
- [ ] Good visuals and easy to understand charts and graphs