READING AT UNIVERSITY – Critical thinking

Assessment criteria often include a requirement for students to demonstrate analytical and critical thinking. Thinking critically is fundamental to academic enquiry – it forms the basis for how knowledge in a field is established and advanced. For this reason there is an expectation that students will develop this skill throughout their courses and on into their future professional practice in whatever field they choose to pursue.

Although the focus of critical thinking can vary from one discipline to another, there are general principles which apply across all disciplines. An important aspect of critical thinking is the ability to evaluate the arguments and ideas presented by others, and to demonstrate this in how you present and analyse these ideas in your writing. Also important is your capacity to demonstrate a critical perspective in how you express your own ideas.

What is 'evidence'?

In a court of law judges make decisions based on the evidence presented to them. Similarly, academics and researchers base their claims on evidence. In the academic context evidence consists of all the reasons, examples, statistical data and other information presented in support of a hypothesis or argument.

Some general questions to consider

Before engaging in detailed analysis of a text, it is useful to read it with some more general questions in mind. It is also important to identify key components. The questions listed in Table 1 can be useful to consider as you read – they will help you to orient yourself to the text, and begin to critically evaluate it.

What	is the intended <i>purpose</i> of the text?
Who	is the intended <i>audience</i> ?
What	is the central argument or focus of the text?
ls a co	onsistent argument or analysis presented?
Are s the to	upporting reasons and examples appropriate and relevant to the author's position on opic?
Are th	nere underlying assumptions? If so, are these reasonable and valid?
Is the	topic presented in a balanced way? Are a range of perspectives explored and discussed?
Have	alternative explanations been considered?
Have	an adequate range of academic sources (i.e. references) been consulted?
	ndings/conclusions consistent with the evidence presented?

Table 1: Questions to help you understand and evaluate an academic text (adapted from Greetham, 2008, p. 85)



Evaluating 'argument'

It is useful to consider as you read how convincing you find the author's position or argument. Is their explanation of the topic logical and clear? What evidence have they provided to support their position? What are the strengths and potential weaknesses in their perspective? Are any claims they make reasonable, based on the information and discussion they have provided?

Key skills in critical thinking

The Open University (2008, cited in Williams, 2009) has proposed a 'stairway' to critical thinking (Figure 1) involving several steps. The initial steps focus on the process of reading and understanding an academic source; the subsequent steps are skills you apply in writing about academic sources.

Develop arguments, positions and opinions based on and supported by your critical evaluation of academic sources; make inferences, identify implications and draw conclusions.								
Apply your	Apply							
Assess sou logic, and								
that help y	cal connections be you present, shap rces based on sim	e and support	your ideas.	Synthesise				
			Compare	Consider simil	similarities and differences between sources.			
Analyse			Examine how the key components fit together and relate to each other.					
	Understand	Identify and comprehend the key ideas, assumptions, arguments and evidence.						
Process	Take in information (e.g. reading, listening, seeing, doing).							

Figure 1: A stairway to critical thinking (adapted from Open University, 2008 as cited in Williams 2009)

Note that skills such as analysing, synthesising, and evaluating frequently appear in the instructions to assessment tasks. The stairway to critical thinking shown in Figure 1 can help you to better understand what is required of you in satisfactorily completing assessment task responses. Although the skills are listed in a hierarchy, there is considerable overlap in when and how you compare, evaluate and synthesise the academic sources you consult.

Other resources

Reading at uni – Getting started

Reading at uni – How and why are you reading?

Reading at uni – Critiquing research

References

Allen, M. (1997). Smart thinking. Melbourne: Oxford.

Greetham, B. (2008). How to write better essays (2nd ed.). Houndmills: Palgrave Macmillan.

Taylor, G. (1989). The student's writing guide. New York, US: Cambridge University Press.

Williams, K. (2009). Getting critical. Houndmills: Palgrave Macmillan.

