

YTC CRITICAL THINKING RUBRIC
(Biology 225)

	Advanced - 4	Competent - 3	Developing - 2	Elementary - 1	Score ____
Identify	Clearly defines the root problem of the case study; accurately describes situation; exhibits an open mind; thinks about own thinking process	Recognizes that there is a problem in the case study; identifies some component parts; exhibits somewhat of an open mind	Identifies inappropriate issues or problems in the case study; unable to accurately describe problem or situation; exhibits some open-mindedness	Fails to identify any problem or question in the case study; ignores pertinent information; exhibits a closed mind	
Gather	Gathers all pertinent information from the case study; considers all perspectives and assumptions; reflects on the problem or question	Gathers some pertinent information from the case study; considers most perspectives and assumptions	Gathers inadequate information from the case study; considers some perspectives and assumptions	Gathers no pertinent information; considers few perspectives or assumptions	
Examine	Identifies relationships between key pieces of information; recognizes priorities; analyzes and sorts pertinent elements from information gathered; reflects on the problem or question	Identifies some relationships between key pieces of information; discovers most relevant elements from information gathered	Wanders from the issue; recognizes some priorities; sorts some relevant elements from gathered information	Disregards the issues; does not recognize priorities; unable to sort important elements from information gathered	
Formulate	Suggests multiple causes of the disease; identifies a position; devises a logical plan of action; reflects on past experience to support decisions	Suggests some possible causes of the disease; develops an acceptable plan; uses some past experience to support decisions	Presents few options; fails to reach a position; develops a marginal plan; shows difficulty in using past experience to support decisions	Presents no options; fails to reach a position; does not integrate past experiences to support decisions; fails to develop a coherent plan	
Apply	Clearly demonstrates an understanding of the cause of disease in the case study;	Demonstrates an understanding of the part of the cause of disease in the case study	Demonstrates an understanding of small portion of any cause of disease in the case study	Does not demonstrate an understanding of any cause of disease in the case study	
Evaluate	Develops further implications from the case study; judges results objectively; assesses conclusion in terms of validity and reliability; offers alternative solutions; reflects on own thinking process and opportunities for improvement	Develops some implications from the case study; addresses validity and reliability; judges results but does not provide alternatives; justifies most results; reflects on problem or process but not completely	Does not see further implications of the case study findings; draws faulty conclusions; information is interpreted inaccurately; justifies some results; shows some reflection on problem or process	Fails to question data; ignores bias; fails to assess conclusion; justifies results with no reason; does not reflect on problem or process	