

## Content Knowledge: “What you know”

Achievement Level	Level Descriptor
0	The student does not reach a standard described by any of the descriptors below.
1	The student <b>recalls some</b> scientific ideas, concepts or processes. The student can apply scientific understanding to <b>solve simple problems</b> .
2	The student <b>recalls most</b> scientific ideas, concepts or processes. The student applies scientific understanding to <b>solve most simple problems</b> . Evidence of level 3 or 4 descriptors are so few and inconsistent that the achievement level of 2 remains justified.
3	The student <b>describes</b> scientific ideas, concepts or processes. The student applies scientific understanding to <b>solve complex problems in familiar situations</b> . The student analyses scientific information by identifying parts, relationships or causes. The student shows <b>some evidence of using scientific information in a useful way</b> .
4	The student <b>uses</b> scientific ideas, concepts and processes in a useful way or to construct explanations. The student applies scientific understanding to solve complex problems in <b>unfamiliar situations</b> . The student <b>analyses and evaluates</b> scientific information and <b>makes judgements</b> supported by scientific understandings.

## Content Knowledge: “What you know”

Achievement Level	Exam Score
0	<b>0-20%</b> , Random guessing might statistically explain up to twenty percent on a multiple choice exam with five answer choices. As a result I have no confidence or a lack evidence of any learned knowledge.
1	<b>21-40%</b> , Sixty percent of the exam consists of low order questions, factual recall and simple problems. A score in this range can not be explained by guessing alone, the student demonstrates a knowledge of some scientific information.
2	<b>41-60%</b> , A student who scores in this range demonstrates a knowledge of most of the low order questions, factual recall and simple problems scientific information. Although the student may have answered some higher ordered questions, it is unlikely that the bulk of their knowledge/score comes from level 3 and 4 questions.
3	<b>61-80%</b> , Twenty percent of the exam consists of questions that require level skills to answer them correctly. A student who scores in this range demonstrates the ability the use at least some scientific knowledge in meaningful ways. Obviously the closer the score is to 80% the higher the degree of confidence.
4	<b>81-100%</b> Twenty percent of the exam consists of challenging higher order questions, a student who scores in this range demonstrates the ability the use scientific knowledge in meaningful ways. These students show the ability to solve complex problems, some of which may have be unfamiliar to them.