

BIODETERIORATION DIAGNOSTICS DATABASE (AKA THE “ROTBOT”)

TABLE - Rubrics and ‘Weighted’ Rubrics

This table is not weighted in the ‘accuracy’ category. In the classroom, this table can therefore be used to clearly assess student submissions using an explicit, quantitative scale. Accuracy of diagnoses, however, is more important than the other categories when actually submitting to a specific category in the RotBot. Instead of weighting the importance of accuracy numerically, the RotBot recommends that actual database submissions by students first be deemed accurate by the instructor or be submitted into the ‘unknown pest’ category.

Category ↓	Score →	4	3	2	1
A) Accuracy of Diagnosis		Diagnosis is accurate enough to suggest the unquestionable approach to successful remediation	Diagnosis is likely accurate, although alternative threats can not be ruled out completely	Diagnosis is questionable, with alternative threats more likely causing the problem	Diagnosis is incorrect, with an alternative threat clearly the correct diagnostic choice
B) Logic of Diagnosis		Demonstrated a logical consideration of all evidence gathered to conclude diagnosis	Completely addressed evidence with a logical conclusion, but failed to fully explain logic	Incompletely addressed evidence <u>or</u> was not completely logical in concluding diagnosis	Incompletely addressed evidence <u>and</u> was not completely logical in concluding diagnosis
C) Image Utility		Images are supportive of description <u>and</u> enhance the ability to make a diagnosis	Images are supportive of description <u>but</u> do not enhance the potential to make a correct diagnosis	Images are confusing and do not support the written problem description – they hinder diagnosis	Image files are incorrect, corrupt or fake, or file-types not accepted by the RotBot
D) Problem Description		Gives information to make a confident diagnosis, including detail (texture, history, etc.) not photographable	Gives useful information to make a diagnosis with high probability, but best if used in tandem with images	Does not provide enough information to make a diagnosis or give any new information that is not very clear from the images	Gives information that is misleading and/or clearly in disagreement with the photographic evidence in the images
E) Remediation Approach		The recommendation is clearly the logical route forward that considers all options and unknowns	The recommendation is a logical route, but more alternatives and pitfalls should be considered	The recommendation is incomplete and does not anticipate unknowns or alternative options	The recommendation is illogical, incomplete, and lacks options
F) Avoidance Strategies		Preventative strategies recommended are logical and exhaustively consider options	Preventative strategies recommended are logical, but not all options are considered	Preventative strategies recommended are incomplete, and not all options are considered	Preventative strategies recommended are illogical, incomplete, and lack options
G) Grammar/Clarity		Clear and correct	Minor problems	Major problems	Unreadable

Perfect Score = 28 Lowest Score = 7 Suggested Grade Scale 7=58 points, 8=60, 18=80, 28=100 (score x 2 + 44 = points)