

	Criterion	Marginal						Advanced
•	Organization Structure	 No clear organization/logical structure Lacked introduction and/or conclusions Introduction fails to present problem Introduction lacks a statement of result Introduction lacks preview of major sections Few or no transitions or signposts Viewer is "lost" 	Poor Comments:	Fair	Good	Very Good	Excellent	 Excellent organization/logical structure Excellent intro and conclusion Introduction clearly states problem Excellent statement of result in introductio Introduction contains excellent preview of major sections Excellent use of transitions and signposts Speaker helps audience follow structure
c	ontent Models	 Fails to identify models relevant to the physical system Lacks discussion of main physics ideas Lacks discussion of application of ideas Lack of connections between fundamental physics principles and the model 	Poor Comments:	Fair	Good	Very Good	Excellent	 Identifies models relevant to the physical system Excellent discussion of main physics idea: Excellent application of ideas to problem Excellent connection between fundamenta physics principles and the model
	Content Prediction Discussion	 Data used to initialize the model are not clearly identified Fails to discuss how parameters are adjusted to fit data Fails to discuss how data does or does not fit the model Fails to discuss whether the computational model does or does not predict the motion of the object observed 	Poor Comments:	Fair	Good	Very Good	Excellent	 Data used to initialize the model are clear identified Excellent discussion of how parameters a adjusted to fit data Excellent discussion of how data does or not fit the model Excellent discussion of whether the computational model does or does not pre- the motion of the object observed Discussion contains no physics errors Excellent discussion of "What if" question Excellent discussion of "What does it mean question
с	ontent Overall	Discussion contains major physics errors Lack of discussion of "What if" question Lack of discussion of "What does it mean" question	Poor Comments:	Fair	Good	Very Good	Excellent	
	Production Delivery	 Poor lighting/low resolution; video hard to see Poor audio; audio difficult to hear Distracting vide (e.g., shaking) Overall production quality is poor Visuals fail to enhance message Poor vocal qualities in narration 	Poor Comments:	Fair	Good	Very Good	Excellent	 Excellent lighting/resolution Excellent audio quality No distracting video Overall production quality is excellent Visuals reinforce and support message Excellent vocal qualities in narration

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