

Question type and class	Effective	Adequate	Ineffective
<p>“What” (Context)</p> <ul style="list-style-type: none"> • Vocabulary/background • Assumptions • Uncertainties • Method • What is on this figure?! 	<ul style="list-style-type: none"> - Well-developed question on the background science, processes, models or relationship. Extra thought shown. - Probes assumptions 	<ul style="list-style-type: none"> - About science or basic background - About processes, models, relationships that are in the article, but needs more development or careful thought 	<ul style="list-style-type: none"> - Not based on the article - Basic misunderstanding or misconception - Irrelevant or illogical
<p>“Why” or “How” (Implication)</p> <ul style="list-style-type: none"> • follow-up discussion • address further observations to test theory • exploit results to extrapolate/predict consequences • address broad implications 	<ul style="list-style-type: none"> - Beginnings of a new hypothesis that can be tested - Shows extended thought or synthesis of article content - Questions a puzzling result or paradox in the paper 	<ul style="list-style-type: none"> - Simple “what if” or “what’s next?” - Question includes information at the beginning to provide context. 	<ul style="list-style-type: none"> - Unqualified “what if” question, with no information or context at the beginning of the question - Unrelated to article or missing