Adapted Language Frames for Argumentation Leading to a Scientific Explanation Adapted from Foss and Frey, The Art of Argumentation. Science and Children 47 (3), 28-31 (2009)

Supports when creating an Explanation		
Claim • I claim .		
Testable statement or conclusion that answers the	• Specific frame: e.g. The "burrowing owl" population is de	-
original question.	Open frame: Theis	
onginal question	due to	
	My question was	. My claim is
Evidence	Evidence for my claim is	and
Appropriate and	·	
sufficient to	I observed	
support the claim. (investigation.,	The evidence is enough to support the claim because	
observations,	 The evidence is the right evidence for my claim because 	
reading, or other		· .
sources) Reasoning	Science reading aboutis similar to my	claim and the
Justification for why	evidence.	
the data counts as		had
evidence. Use	Two other sourcesand similar results.	11au
scientific background		
information to link		
claim and evidence.	and I disagree withclaim because	
Offering a	I disagree withclaim because	·
counter-claim		
or rebuttal		
Scientists include disagreements with		
current ideas when		
making a claim.		
Supports when questioning someone else's claim		
Asking for	I have a question about Doeshave more What causesto	·
evidence:	Doeshave more	?
Clarify	What causestot _toto _to	?
	 Can you show where you found the evidence for 	<i>!</i>
	Why did you select the evidence used?	
Inviting	I wonder what would happen if?	
Speculation	I have a question about	
	Let's find out how we can test samples for	?
	We want to testto find out If I changethen I think	
	If I changethen I think	will happen.
	I wonder why?	
	How would this be different if	?
	What do you think will happen if	?
Supports when reaching a group or class consensus about a claim.		
Reaching	I agreebecause	
Consensus	We agree on We do not agree on	·