

Mathematics Claim #4

MODELING AND DATA ANALYSIS

Students can analyze complex, real-world scenarios and can construct and use mathematical models to interpret and solve problems.

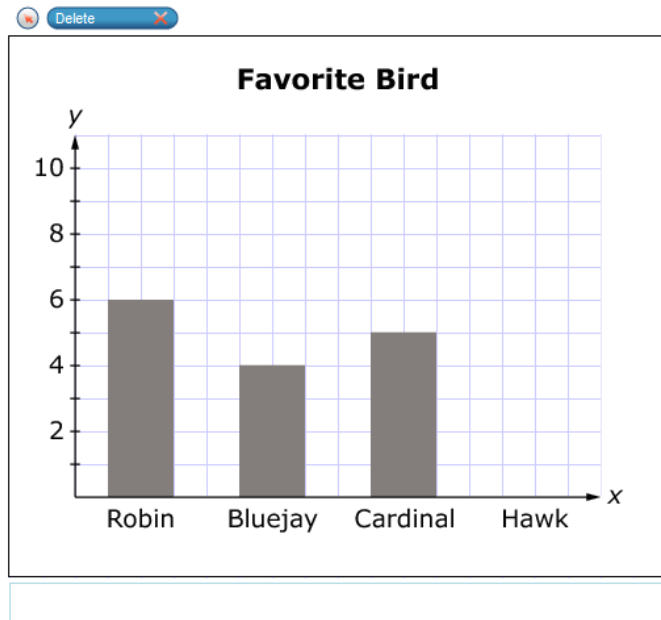
Range ALDs – Claim 4 Grades 3-5	Level 1 Students should be able to identify important quantities in the context of a familiar situation and translate words to equations or other mathematical formulation. When given the correct math tool(s), students should be able to apply the tool(s) to problems with a high degree of scaffolding.
	Level 2 Students should be able to identify important quantities in the context of an unfamiliar situation and to select tools to solve a familiar and moderately scaffolded problem or to solve a less familiar or a non-scaffolded problem with partial accuracy. Students should be able to provide solutions to familiar problems using an appropriate format (e.g., correct units, etc.). They should be able to interpret information and results in the context of a familiar situation.
	Level 3 Students should be able to apply mathematics to solve unfamiliar problems arising in everyday life, society, and the workplace by identifying important quantities and mapping, displaying, explaining, or applying their relationship and by locating missing information from relevant external resources. They should be able to construct chains of reasoning to justify a model used, produce justification of interpretations, state logical assumptions, and compare and contrast multiple plausible solutions.
	Level 4 Students should be able to apply mathematics to solve unfamiliar problems by constructing chains of reasoning to analyze a model, producing and analyzing justification of interpretations, stating logical assumptions, and constructing and comparing/contrasting multiple plausible solutions and approaches.

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Mr. Lowe asked his students to vote for their favorite bird. A total of 22 students voted.

Bird	Votes
Robin	
Bluejay	
Cardinal	
Hawk	



Click above Hawk on the graph to show the number of students who chose it as their favorite bird.

Grade	Claim	Domain	Target	DOK	Content	MP	Key
3	4	MD	D	2	3.MD.B.3	4, 5, 6	7