

H.R. 3588, Mathematical and Statistical Modeling Education Act

As ordered reported by the House Committee on Science, Space, and Technology on April 5, 2022

By Fiscal Year, Millions of Dollars	2022	2022-2027	2022-2032
Direct Spending (Outlays)	0	0	0
Revenues	0	0	0
Increase or Decrease (-) in the Deficit	0	0	0
Spending Subject to Appropriation (Outlays)	0	46	51
Statutory pay-as-you-go procedures apply?	No	Mandate Effects	
Increases on-budget deficits in any of the four consecutive 10-year periods beginning in 2033?	No	Contains intergovernmental mandate?	No
		Contains private-sector mandate?	No

H.R. 3588 would authorize the appropriation of \$10 million annually over the 2022-2026 period for the National Science Foundation (NSF) to award grants to nonprofit organizations and institutions of higher education to develop approaches for teaching mathematical modeling in schools, and to report to the Congress on those grants. The bill also would authorize the appropriation of \$1 million in 2022 for the NSF to enter into an agreement with the National Academies to study opportunities for and barriers to teaching mathematical modeling in schools.

For this estimate, CBO assumes that the legislation will be enacted late in fiscal year 2022 and that the authorized amounts will be appropriated each year. As a result of the late enactment date, CBO expects that spending would begin in 2023.

The NSF has awarded grants similar to those authorized under the bill in past years; however, using information from the agency, CBO estimates that no amounts were allocated for that purpose in 2022. Based on historical spending patterns for similar programs, CBO estimates that implementing H.R. 3588 would cost \$46 million over the 2022-2027 period and \$5 million after 2027.

The costs of the legislation, detailed in Table 1, fall within budget function 250 (general science, space, and technology).



Table 1.
Increases in Spending Subject to Appropriation Under H.R. 3588

	By Fiscal Year, Millions of Dollars											2022- 2027	2022- 2032
	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032		
Authorization	11	10	10	10	10	0	0	0	0	0	0	51	51
Estimated Outlays	0	6	10	12	10	8	4	1	0	0	0	46	51

The CBO staff contact for this estimate is Janani Shankaran. The estimate was reviewed by H. Samuel Papenfuss, Deputy Director of Budget Analysis.