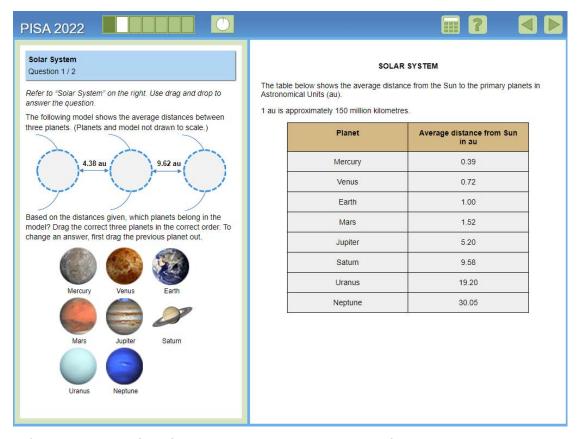
Annex C. Released items from the PISA 2022 computer-based mathematics assessment

Four new mathematics units were released from the main survey of the PISA 2022 assessment; the ten items from these four units are presented in this annex.

Screenshots of the interface used in PISA 2022 are shown to give readers an understanding of how students interacted with the assessment and its items. Interactive versions of all of these units are also available at www.oecd.org/pisa.

Unit CMA123 – Solar System

Solar system, released item #1 (CMA123Q01)



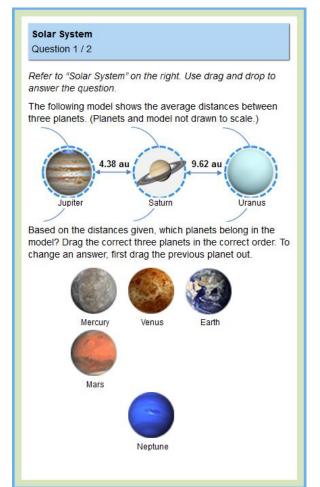
This is the first item in the unit *Solar System*. There is no introduction screen for this unit. For this task, students need to determine which three planets have the average distances, in Astronomical Units (au), between them that are

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shown in the model. To do this, students need to use the table in the stimulus that gives each planet's average distance from the Sun, in au. The correct answer, from left to right, is Jupiter, Saturn, Uranus.

To respond to the question, students have to drag-and-drop the planets into the model (see below for an image of the planets placed in the model). There is no introduction or practice screen before this item but instructions for how to respond and change a response are given explicitly in the question stem. A full-credit response was given for correctly placing all three planets, and partial credit was given for correctly placing any two planets. This is a moderately difficult item with both full and partial credit being at Level 3 on the proficiency scale.

Below is an image of what the question stem and response area look like after the student has dragged-and-dropped the planets into their respective locations in the model.



Unit Name – Item #	Solar System – CMA123Q01
Content Area	Quantity
Process	Interpret/Evaluate
Context	Scientific
Item Format	Complex Multiple Choice - Computer Scored
Answers	Full Credit: All three planets are correctly placed (from left to right: Jupiter, Saturn, Uranus)
	Partial Credit: Any two planets are correctly placed (other planet is incorrect or missing)
Proficiency Levels	3 (full credit)
	3 (partial credit)