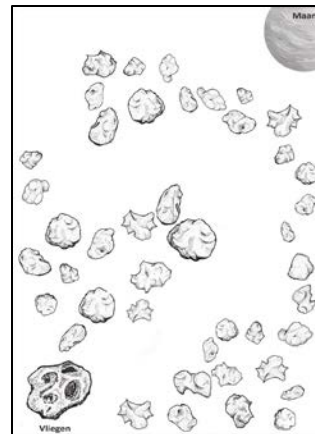


Asteroid Map

Chapter 6—Problem 1: Asteroid Field

In the Asteroid Field problem in Chapter 6 of *Problem-Based Learning for the Physical Science Classroom, K-12*, students use straws to blow on a ball to move it through a maze of asteroids. As your students work on this activity, you can choose a couple of methods to create a map of the asteroid field.

One method is to download the single-page version of the asteroid map from the book's Extras page (www.nsta.org/pbl-physicalscience). This option is ideal if you have access to a printer that permits you to enlarge files to print on poster-sized paper. We recommend you select a size at least 33 inches by 44 inches.



If you do not have access to a poster printer, you can download the 16-page version. This PDF file has arranged individual sections of the map on separate pages. Print all 16 pages, then tape the pages together in the pattern shown below. Each page has a register number in the lower right-hand corner to help you align the pages. Overlap the pages to align the black box around each image, then tape the pages in place.

1a	1b	1c	1d
2a	2b	2c	2d
3a	3b	3c	3d
4a	4b	4c	4d

Another method is to use the map as a guide to arrange books, wooden blocks, or other objects on the floor to let students move the ball through a large maze on the floor of your classroom.