

Engineering And Robotics Learned Young

◆ EARLY ◆

2005-2006 Robotics Competition Mission Scoring Piece Details

The 2005-2006 EARLY Robotics Competition mission scoring pieces are 52 flat marbles that represent Moon rocks. Two colors of marbles represent Moon rocks with different characteristics. The following information is provided for acquiring the flat marbles. If you have any questions or comments, please email EARLY at Mission.Control@EARLYrobotics.org or visit the EARLY Neighborhood Forums at www.EARLYrobotics.org.

Moon Rocks



Amber and blue flat marbles are the game pieces. For the Fall EARLY Fall Challenge, the amber flat marbles represent *Mineral Rich Moon Rocks* and the blue flat marbles represent *Oxygen Rich Moon Rocks*. For the Spring EARLY Fall Challenge, all the flat marbles represent *Processed Moon Rocks*. The flat marbles are approximately 0.7" in diameter and 0.35" tall

There are 26 amber flat marbles and 26 blue flat marbles used for the mission



Flat Marbles from Wal Mart

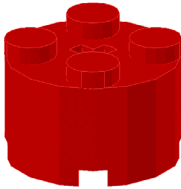


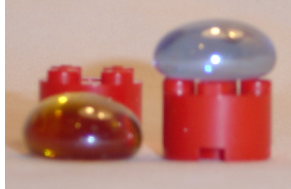


Flat Marbles from Michael's

- The scoring piece is a flat marble that is approximately 0.70" in diameter and 0.35" high
- There are 26 amber flat marbles and 26 blue flat marbles in the mission
- The flat marbles colors, amber and blue, is not critical. For the Fall EARLY Challenge, it is important that there are two distinct colors, one to represent the *Mineral Rich Moon Rocks* and the other to represent the *Oxygen Rich Moon Rocks*. For the Spring EARLY Challenge, it is not important that there are two distinct colors since all of the flat marbles represent *Processed Moon Rocks*.
- The flat marbles can be found at many craft departments and stores including the following
 - **Wal Mart**
 - **Michael's**

Please visit the EARLY Neighborhood Forums at www.EARLYrobotics.org for places that others have found the flat marbles.
- The cost of 52 flat marbles of two colors is approximately 4 dollars

- The red 2 x 2 round brick with axle hole can be used as a reference when acquiring the flat marbles

 <p>2 x 2 Round Brick with Axle Hole</p>	 <p>Overview of the flat marble compared to the 2 x 2 Round Brick</p>	 <p>The flat marble is a little larger in diameter than the 2 x 2 Round Brick</p>	 <p>The flat marble is a little shorter than the 2 x 2 Round Brick</p>
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- **Learning Activity Idea:** Have team members find rocks or pebbles that are approximately the correct size as a substitute for the flat marbles. Many questions arise from this activity.
 - "How should we differentiate between *Mineral Rich Moon Rocks* and *Oxygen Rich Moon Rocks*?"
 - "How do we measure the rocks?"
 - "Should we select rocks that have two distinct colors or should we modify the rocks after gathering 52 of the correct size?"
 - "Other than rocks, what other things could we substitute for the flat marbles?"

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Thank you for maintaining the spirit of the game!