

## Engineering And Robotics Learned Young EARLY

 2013-2014 Robotics Competition Mission Object DetailsThe 2013-2014 EARLY Robotics Competition mission objects are 45 water bottle caps representing Pumps and 45 straws representing Pipes. The following information is provided for the Pumps and Pipes.

## Pumps \& Pipes



A Pump is represented by a low profile water bottle cap \& a Pipe is represented by a straw


45 bottle caps and 45 straws are used for the mission


A Pump is about $1.1^{\prime \prime}$ in diameter and $0.3^{\prime \prime}$ tall \& a Pipe is about $0.25^{\prime \prime}$ in diameter and $7.5^{\prime \prime}$ long


Water bottles and straws can be purchased from a variety of department, grocery, dollar, and drug stores

- The mission objects are a low profile water bottle cap and a standard flexible straw.
- The water bottle cap measures approximately $1.1^{\prime \prime}$ in diameter and $0.3^{\prime \prime}$ tall. This cap is found on Ozarka water bottles and most low profile water bottle caps are very similar.
- The flexible straw measures approximately 0.25 " in diameter and $7.5^{\prime \prime}$ long.
- The cap mission object is referred to as a Pump and the straw mission object is referred to as a Pipe.
- There are 45 cap mission objects and 45 straw mission objects required for the challenge.
- Water bottles and straws can be purchased from a variety of department, grocery, dollar, and drug stores.
- The cost of 45 water bottles and 45 straws is approximately ten dollars.

Please contact Mission. Control@EARLYrobotics.org with any questions or comments.
Thank you for maintaining the spirit of the game!

