

Spontaneous Problem: Radio Activity

A. When the team enters the room, tell them, "This is a **hands-on** problem. In an actual tournament you would have one minute to select five team members to compete. The others would leave or stay to watch, sitting in seats away from the table. If they stayed in the room, they could not assist in solving the problem and could not talk at ANY time. But today, all members may participate!"

B. JUDGE READS TO TEAM:

1. This is a two-part problem. In Part I you will be given 2 minutes to discuss the problem, practice, and develop a solution. In Part II you will be given 3 minutes to compete for score.
2. You may talk or ask questions at any time; however, time continues.
3. Your team's problem is: The plate is radioactive and contains 12 radioactive samples. You must remove only one ball at a time from the plate and place it into the carton. You may not touch the balls or the plate with any part of your body.
4. Your team must use only the items provided for you. Once an item has been used, it must be discarded and cannot be used again. If two or more items are combined, all must be discarded after each use.
5. Your team is to take turns in sequence. You may not skip your turn, nor repeat, or pass.

6. Scoring:	3 red balls	8 point each	=	24 points
	2 blue balls	6 points each	=	12
	7 white balls	2 points each	=	14
	All 7 white balls	bonus	=	28
	All 12 balls	bonus	=	36
	Teamwork	<u>bonus</u>	=	<u>36</u>
		Total	=	150 points

7. If a ball is touched, the judge will confiscate it.
8. If a plate is touched the team selects one successfully placed ball to be confiscated by the judge for each offense.
9. If a ball is accidentally knocked out of the dish the ball is confiscated.

C. FOR JUDGES ONLY

1. Place the plate 24" from the egg carton.
2. Have the following items available for each team: 1 envelope; 1 pc mailing label 1" x 1"; 1 pipe cleaner; 1 wire tie; 12" string; 1 8.5 x 11 paper; 1 birthday candle; 1 ballpoint pen; 1 straw; 1 Styrofoam cup; 1 pencil; 1 popsicle stick; 1 plastic baggie.
3. If a paper is torn or an item broken, all the portions used by a student go into the discard box.

Presenter's Post Comments

I think from my problem the main emphasis is how to make more from less. Careful evaluation of ALL materials, asking questions about taking the materials apart. Strategy and understanding of where the points are. Take turns in sequence is important. What does that mean? And how to facilitate the success of each member. How to avoid the situation where everyone crowds around and gets in everyone else's way.

Patti

Team Copy

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