Experimental Design Tryout Test 2014-15

ANSI Z87 Safety Goggles required. Participants are only allowed writing utensils and calc, not to be used in experiment. Grading is per standard Science Olympiad Experimental Design Rubric.

Conduct and document an experiment concerning one or more of the following, with bonus:

- Other topic (+0 Bonus)
- Surface Tension (+1 Bonus)
- Packing Efficiency (+3 Bonus)
- Material Properties (+3 Bonus)
- Waves (+5 Bonus)
- Quantum Mechanics (+5 Bonus, +1 Tiebreaker)

Common Tools:

Mass Balance/Scale Scissors Scotch Tape Protractor

Materials:

8xLined Paper (For Report Writing and Scratch paper only)4xGraph Paper (For Report Graphs and Data Tables only)1x100 mL Beaker1xWooden Ruler1x50mL Beaker10xA4 Paper Sheets5xPaperclip5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xMarker∞Salt1mString/Wire	vialeriais.	
1x100 mL Beaker1xWooden Ruler1x50mL Beaker10xA4 Paper Sheets5xPaperclip5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Salt1mString/Wire	8x	Lined Paper (For Report Writing and Scratch paper only)
1xWooden Ruler1x50mL Beaker10xA4 Paper Sheets5xPaperclip5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Salt1mString/Wire	4x	Graph Paper (For Report Graphs and Data Tables only)
1x50mL Beaker10xA4 Paper Sheets5xPaperclip5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Salt1mString/Wire	1x	100 mL Beaker
10xA4 Paper Sheets5xPaperclip5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire	1x	Wooden Ruler
5xPaperclip5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire0xTears of the Proctor	1x	50mL Beaker
5xPenny Coin4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire0xTears of the Proctor	10x	A4 Paper Sheets
4xQuarter Coin3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire0xTears of the Proctor	5x	Paperclip
3xStraw2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire0xTears of the Proctor	5x	Penny Coin
2xRubber Band2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire0xTears of the Proctor	4x	Quarter Coin
2xSmall Paper Cup1xSpork1xMarker∞Water∞Salt1mString/Wire0xTears of the Proctor	3x	Straw
1x Spork 1x Marker ∞ Water ∞ Salt 1m String/Wire 0x Tears of the Proctor	2x	Rubber Band
$1x$ Marker ∞ Water ∞ Salt $1m$ String/Wire $0x$ Tears of the Proctor	2x	Small Paper Cup
 ∞ Water ∞ Salt 1m String/Wire 0x Tears of the Proctor 	1x	Spork
∞ Salt 1m String/Wire 0x Tears of the Proctor	1x	Marker
1m String/Wire 0x Tears of the Proctor	∞	Water
0x Tears of the Proctor	∞	Salt
	1m	String/Wire
3x∞ Tears of Participants		
	3x∞	Tears of Participants

Conserve your resources, as you will not be given extra materials. Paper towels/rags available for

cleanup.

Do not remove this paper from the testing room. Do not mark on this paper. Dispose of unused/scrap

Src: dMHS-SO CDIV OFFICERS C15

Conserve your resources, as you will not be given extra materials. Paper towels/rags available for cleanup. Do not remove this paper from the testing room. Do not mark on this paper. Dispose of unused/scrap

paper.