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**GameWize: Making Maths Fun! with Microsoft Office 2nd Edition**

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**GRAPH MASTER**

**Software:** Microsoft Office Excel  
**File:** GraphMaster.xls; GraphMasterPictures.xls; GraphMaster.xlsx; GraphMasterPictures.xlsx

**Maths Connections**

All topics: excellent for short reviews, to introduce a new unit, or to prepare for an upcoming quiz or test.

**Game Summary**

Students are divided up into as many as six teams. Teams answer questions. For each correct answer, points are added to their score and the graph changes accordingly. The first team to reach twelve points wins the game.

**Sample Score Board**

![Sample Score Board](image)
Playing the Game

1. Prepare 30 to 40 questions to ask during the game.
2. Open the file GraphMaster or GraphMasterPictures.
3. Ask Team One a question.
   
   **HINT:** To prevent after-the-fact arguments about the answer, have the team write their answer down (on a dry erase board, on paper, etc.).
4. If Team One answers incorrectly, Team Two gets a chance to answer.
5. The first team to answer correctly is awarded a point.
6. Type the point total for the team into the appropriate cell next to their team’s number.

<table>
<thead>
<tr>
<th>Team</th>
<th>Cell</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B1</td>
</tr>
<tr>
<td>2</td>
<td>B2</td>
</tr>
<tr>
<td>3</td>
<td>B3</td>
</tr>
<tr>
<td>4</td>
<td>B4</td>
</tr>
<tr>
<td>5</td>
<td>B5</td>
</tr>
<tr>
<td>6</td>
<td>B6</td>
</tr>
</tbody>
</table>

7. The graph will update accordingly.
8. Play continues until one team has answered twelve questions correctly.

Alternate Rules

- All teams answer the same question, and every team that answers correctly is awarded a point.
- Divide the class into six teams. Ask the question, give the teams time to decide on and write down an answer. Then a team is randomly selected to answer first by rolling a six-sided dice.
**Editing the Graph Colours**

1. Open the file *GraphMaster*.
2. Unlock the sheet so it can be edited.
   - **2003/04/08** Tools menu, Protection, Unprotect Sheet.
   - **2007** Review tab, Unprotect Sheet.
   - **2010** Review tab, Changes group, Unprotect Sheet.
   - **2011** Review tab, Protection group, Sheet.
3. Click once on the bars of the graph. All the bars will be selected.
4. Click once on one bar of the graph to select only that bar.
   
   **NOTE:** Steps 3 and 4 are two separate single clicks instead of one double-click.
5. Select a colour for the bar.

**2003/2004 Bar Colour**

a. Open the *Format Data Point* dialogue box.
   - **2003** Double-click on that bar, or right-click and select *Format Data Point*.
   - **2004** Press Control + Left mouse click, then click *Format Data Point*.
   
   b. If necessary, click the *Patterns* tab.
   
   c. Under the heading *Area*, click on the desired colour for the selected bar.
   
   d. Click on OK.
   
   e. Click to select each of the other bars one at a time and select a colour for each.

**2007/2010 Bar Colour**

a. Right-click on the selected bar.

b. From the drop-down list, click on *Format Data Point*.

c. At the left, click on Fill.

d. At the right, click the circle next to Solid Fill.

f. In the Fill Color section, click the down arrow next to Color.

g. Select the desired colour.

h. Click on Close.
2008 Bar Colour
a. Click the Charts tab.
b. From the Formatting Palette, click on the arrow to expand the Colors, Weights, and Fills section.
c. Click on the desired colour for the selected bar.
d. Click to select each of the other bars and select a colour for each.

2011 Bar Colour
a. Double-click on the selected bar.
b. At the left side of the dialogue box, click on Fill.
c. In the top right part of the dialogue box, click on Solid.
d. Next to Color, click the down arrow next to Automatic.
e. Click to select a colour from the drop-down list.
f. Click on OK.
g. Click to select each of the other bars and select a colour for each.

6. Reactivate the protection on the spreadsheet to avoid unwanted changes being made.
   2003/04/08  Tools menu, Protection, Protect Sheet.
   2007       Review tab, Changes section, Protect Sheet.
   2010       Review tab, Changes group, Protect Sheet.
   2011       Review tab, Protection group, Sheet.

7. Save.