Data Celebrity Heads

This activity teaches:
This is a fun and light-hearted revision activity for data analytics that can be introduced at the end of each module to test student knowledge of the data concepts introduced. Asking and responding requires recall of content knowledge and working in teams encourages collaboration and team spirit. This activity also tests the knowledge and understanding of the audience and can address any misconceptions. Optional question prompt cards have been provided to assist players to consolidate theory.

This activity is targeted towards students in Years 7 and 8 and should take up to 30 minutes. Students should work in small groups.

Learning Intentions:
- Be able to review data concepts outlined in the course
- Be able to test student knowledge and understanding of concepts
- Be able to recall meaning of data concepts and check for misconceptions.

You will need:
- 3 x headband templates, 1 set of data concept labels and question prompts (optional)
- Scissors
- Sticky tape/Blu Tack/Velcro.

Preparation:
- photocopy the headbands, cards and prompts onto card
- cut out one headband for each player and attach the Grok strip so the headband will fit on a student’s head
- cut out the concept cards and place them face down in a container
- use question prompts if required.
Getting Started:
Step 1
Divide the class into 3 teams. Each team selects a player to wear a Data Celebrity Headband.

Step 2
Set up 3 chairs at the front facing the class. Each player sits on a chair.

Step 3
Each player chooses a card from the container and without reading the card sticks it onto their headband using sticky tape, Blu Tack or velcro.

Step 4
Each player takes a turn to ask the whole class audience a question that requires a ‘Yes’ or ‘No’ answer.

Step 5
If the response is ‘Yes’ they can ask another question. If the response is ‘No’ the next player has a turn. The player that correctly identifies the data concept wins a point for their team and a new player from their team takes the winner’s place on the chair.

Success Criteria:
I know I have succeeded when:
- I can articulate the meaning of data terminology.
- I can identify the differences between data concepts.
X-axis

Y-axis

Title

Plot

Subset

Outliers
<table>
<thead>
<tr>
<th>Quantitative</th>
<th>Qualitative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous</td>
<td>Discrete</td>
</tr>
<tr>
<td>Nominal</td>
<td>Ordinal</td>
</tr>
<tr>
<td>Min</td>
<td>Mean</td>
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<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Mode</td>
<td>Median</td>
</tr>
<tr>
<td>Max</td>
<td>Ethics</td>
</tr>
</tbody>
</table>
Raw data

Processed data

Spreadsheet

Bias
Am I the largest number in a dataset?

Am I in the middle of a dataset?

Am I the smallest number in a dataset?

Do I differ a lot from other data points in a set?

Do I appear the most in the data?

Am I used to organise and sort data?
Do I make it easier to understand the data?

Am I a type of data?

Am I uncountable and change over time?

Am I part of labelling correctly?

Can I be found on a cartesian plane?

Do I help to calculate data?
<table>
<thead>
<tr>
<th>Do I have a limited number of values?</th>
<th>Do I consider all points of view?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Am I numeric asking how often?</td>
<td>Am I descriptive and observed?</td>
</tr>
<tr>
<td>Have I just been collected?</td>
<td>Am I formatted and organised?</td>
</tr>
</tbody>
</table>
Want more?
Further activities, online resources, assessment ideas and curriculum references.

Adapting this activity
- Have students develop their own set of data cards and prompt statements
- Adapt the game to other areas such as Science, Geography, HASS and The Arts
- As an extension, adapt the activity to a teams versus teams with only the players team to answer the questions
- Another adaption would be to play a game of memory where students match the date concept cards to the prompt question cards.

Keep the conversation going
- What other data terms can be added to the concept cards pile?
- Would time limits on answers make the game more challenging?

Keep learning
- To find out more about careers in data analysis visit Careers with STEM
- To examine more data sets visit Australian Bureau of Statistics
- Take a look at Our World in Data.

For teachers creating a portfolio of learning or considering this task for assessment
- Do students understand the different data concepts and terminology?
- Are they able to apply this to other areas of statistical analysis?