# Describing Graphs 

## (analysis \& evaluation)

## EXAMPLE



## Presentation skills

This lesson begins with describing basic graphs and suggesting what they could represent. It then provides the language necessary for describing, analysing and evaluating with a guided practice. This is followed by students researching and analysing graphs/charts/tables from the Office of National Statistics (ONS) and giving a short presentation on their findings.

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## Teacher's Notes Example

Aim: to develop the students' ability to describe graphical data and practice the key skills of analysis and evaluation.
Level: ${ }^{* * * * *}$ [B1/ B2/C1/C2] Lesson Time: 1-2 hours

## Graphical Analysis \& Evaluation Lesson Plan

1.Lead in (10 minutes)
i. Ask students to look at Graph 1 (worksheet) and explain the graph to your partner.
ii. Teacher elicits the most significant points from the graph [answers: peaks in Feb, April, Dec].
iii. Asks students to suggest a reason for these peaks and what could the product be. Product is flowers (Feb=Valentine's day / April = Easter / Dec = Christmas).
iv. Highlight that analysis is identifying key highs and lows and evaluation is the reasons why. [Disclaimer: There are different understandings of analysis \& evaluation - this is one way]
v. Do the same with the Bar Chart 2 (explain it, highs and lows, why? = ice cream sales).
vi. Labelling graphs: explain the key points (1-4) that must be said before analysing a graph.

## 2. Language Sheet 1: Describing / analysing and evaluation graphical data. (10 minutes)

i. Students read through the language sheet.
ii. Ask students to practice the phrases (choral drilling with teacher if necessary).
iii. IMPORTANT: highlight the three key stages [describe, analyse, evaluate].
iv. Extra: describing graphs activity: www.academic-englishuk.com/graphs
3. Worksheet 2: Example Graph (10+ minutes + feedback)
i. Give out worksheet with Example Graph and ask students to fill in the information.
ii. Feedback using the model answer.

Note: students may need help and guidance with the evaluation section.
4. Worksheet 3: Exercise Graph (10+ minutes + feedback)
i. Give out worksheet with Exercise Graph and ask students to fill in the information.
ii. Feedback: student's own answers (Key points: peak in 1995 but

Possible reasons:
better security
etc...).
5. Graphical Data: preparation: (20 minutes)
i. Give each student one of the web links to graphs from ONS.
ii. Show the students how to find the information: go to webpage / click on the specific section key / find the figure number.
iii. Allow 20 minutes for students to prepare a 1 to 2-minute mini presentation of their graph.
iv. Ask for $2 / 3$ pieces of key data to be described only.
v. They must follow the 3 key stages (describe the key elements (labelling), analysis and evaluation).
6. Presentation ( 30 minutes)
i. Students present their graph slide in front of the class - show webpage graph on board.
ii. Teacher can give feedback.

## Graphs and Statistics EXAMPLE

- Describe these graphs (analysis) and reasons for these (evaluation)


## Graph 1



## Bar Chart 2



## Labelling Graphs



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## Language Sheet 1: Describing graphs and charts

## 1. Describe the graph layout (title / source / axis / key)

The graph from (source) presents data on (title)...
The graph / illustrates (title)...
If we look at this graph on (title) from (source) you can see...
The $y$ axis and the $x$ axis
(Graph) These lines represent... (Bar) These Columns are... (Pie) These segments are... (Table) These rows are...

## 2. Analysis: describe key points from the graph

Overall summary: Overall, there is / has been... / Generally, there is...
What you can see is... / From see...
I'd like to focus your attention on...
If

## you'll see / notice /

(Not all phrases are shown - all in paid version)
A key ... / Two ...
An important point is... / Two important ....
What is ....
An
An analysis ...

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Useful Graph Vocabulary
UP: increase / rise / grow / went up / soar / double / multiply / climb / exceed / DOWN: decrease
```



``` / plummet / halve / depreciate / plunge
UP \& DOWN: fluctuate /
SAME: stable (stabilised) / levelled off / remained constant or steady / consistent (Not all phrases are shown - all in paid version)
```

CHANGES: gently ...
CHANGES: suddenly .....
TOP: reached a peak/......
BOTTOM: bottomed out /

## 3.Evaluation: give reasons for the data

This seems to suggest that...
This is $\square$ of...
This is (clearly) due to...
(Not all phrases are shown - all in paid version)
One
An evaluation of this ...
To
Overall, this highlights ...
A possible future

## Worksheet 2: Example Graph 1



Language: Describe the graph using the phrases below to help you (write in your answers)

The graph from (source) shows/ illustrates (title)...

The y-axis is... $\square$ is...

Overall,... between...
(Not all phrases are shown - all in paid version)

I'd like to focus your ...
(Analysis) The $\square$ is ...
(Evaluation) This is/was ..
(Analysis) The second ...
(Evaluation) This is / was ...

Overall,

A future prediction ...

Example ANSWERS


## Language:

The graph from The Office of National Statistics (2015) the UK over the years 1990 to 2015.


I'd like to focus your attention on two key significant areas.

Analysis: The first one is in 1991, $\square$ dramatically soared to 4\% within two years.

Evaluation: This was possibly because of the UK suffering a small recession caused from high interest lowered the after this and this would explain the sudden rise in 1992.

Analysis: The second interesting point is the sudden drop in GDP in 2007

Evaluation: This is clearly due to the 2007/8 global financial crash, where the many countries suffered what is now being called

Evaluation: Overall, this graph highlights the evidence that global markets and recession

Prediction: There is a possibility that with such uncertainty in the world financial markets that

## Worksheet 3: Exercise Graph



Language: Describe the graph using the phrases below to help you (write in your answers)

The graph from (source) shows/ illustrates (title)...

The $y$-axis is... $\square$ is...

Overall, $\square$ ... between...
(Not all phrases are shown - all in paid version)

I'd like to focus your ...
(Analysis) The is ..
(Evaluation) This is/was ..
(Analysis) The second ...
(Evaluation) This is / was ...

Overall,

A future prediction .

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## Graph Data Analysis

Task: Analyse and evaluate an Office of National Statistics (ONS) graph / chart / table and give a 1-2-minute presentation on your findings.


ONS website: https://www.ons.gov.uk

## Guidelines

i. Your teacher will allocate one of the graphs / charts / tables below.
ii. Open the specific ONS webpage link and find the specific section and graph / chart / table.
iii. Analyse and evaluate the graph / chart / table using language sheet 1.
iv. You must follow the 3 key stages (describe the key elements (labelling), analysis and evaluation).
v. You may need to do some internet research to help your understanding / evaluation.
vi. Give a 2-minute presentation of your graph using your own analysis and evaluation.
vii. You have 20-minutes preparation time.

## Office of National Statistics (ONS) Data links

## Graph 1

| Crime Survey (Exercise on worksheet) |
| :--- |
| Section 5: An overview of crime |
| Figure 1: Crime estimated by the survey has not changed over the last year |
| https://www.ons.gov.uk/peoplepopulationandcommunity/crimeandjustice/bulletins/crimeinengl |
| andandwales/yearendingseptember2018\#overview-of-crime |

## Graph 2

Employment and labour rates
Figure 5: The increase in unemployment was driven by people unemployed for up to six months
https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/employmentandemployee types/bulletins/employmentintheuk/latest

## Bar Chart 3

Aging Population
Section X: The 90 years and over population is getting older.
Figure X: Number of people aged 90 years and over by age group, selected years, UK, 2002 to 2017
https://www.ons.gov.uk/

## Graph 4

## Tourism trends

Section X: What are the main trends in visits and spending?
Figure X: Overseas residents' visits to the UK and UK residents' visits abroad by month
https://www.ons.gov.uk

## There are 20 graphs / charts / tables in the paid lesson version

Other topics: life satisfaction / divorce / religion / mental health / alcohol / mobile phones / murder / technology / leisure / population growth / life expectancy / etc..

