**Investigation**

First read all of the online resources and use the student resource sheet to help you carry out an investigation of the geography of the 2016 EU referendum. Use it to formulate questions which you can follow up after the results are in for the 2016 vote in May and your own surveys/mock elections of your class, year group or whole school.

**Introduction**

* 1. In this section you will explain what it is that you are investigating.
	2. You will **choose questions for enquiry** that you want to answer.
	3. You will explain important background information.
	4. Outline a **plan** of what you intend to do and what data you will collect.

**Results**

* 1. Tabulate (put in tables) data.
	2. Convert the data into easier forms to interpret:
		+ Use graphs
		+ Simplify data into things like rounded numbers or a representative mean.

**Analysis**

* Show how your results answer your questions for enquiry:
	+ Annotate graphs and diagrams
	+ Construct paragraphs.

**Conclusions**

* For each of your enquiry questions what have you found out? What is the answer?

**Methodology**

1. Often the Methodology follows the Introduction as you explain what you plan to do. In this investigation we are going to place the Methodology before the Evaluation so that we can better develop our evaluative skills for the future.
2. You will explain how you gathered your data and justify your choices.
3. You will explain how you represented your data and justify your choices.

**Evaluation**

* 1. Evaluate your **process** (how you carried out your investigations (methods)) – what was successful? What went wrong? What could you do differently next time?
	2. Evaluate your **sources** – (your information and data) which are reliable and why? Which might be biased and why?
	3. Evaluate your **outcomes** – (your conclusions) what is reliable and why? Which may be wrong or inaccurate and why?
	4. Formulate more questions for a future enquiry based on your findings; this is especially important to find out if your predictions may be correct after the election.
1. Put the section title **Introduction.**
2. What is the EU?
3. What is a referendum?
4. On an outline map of Europe draw and label a map of the 28 member states.
5. Draw a graph to show the populations of the 28 member states and Wales.

|  |  |  |
| --- | --- | --- |
| **Name** | **Population** | **Area (km2)** |
| Austria | 7006858492600000000♠8,584,926 | 7004838550000000000♠83,855 |
| Belgium | 7007112584340000000♠11,258,434 | 7004305280000000000♠30,528 |
| Bulgaria | 7006720219800000000♠7,202,198 | 7005110994000000000♠110,994 |
| Croatia  | 7006422531600000000♠4,225,316 | 7004565940000000000♠56,594 |
| Cyprus  | 7005847008000000000♠847,008 | 7003925100000000000♠9,251 |
| Czech Republic | 7007105382750000000♠10,538,275 | 7004788660000000000♠78,866 |
| Denmark | 7006565971500000000♠5,659,715 | 7004430750000000000♠43,075 |
| Estonia | 7006131327100000000♠1,313,271 | 7004452270000000000♠45,227 |
| Finland | 7006547175300000000♠5,471,753 | 7005338424000000000♠338,424 |
| France | 7007663524690000000♠66,352,469 | 7005640679000000000♠640,679 |
| Germany | 7007811740000000000♠81,174,000 | 7005357021000000000♠357,021 |
| Greece | 7007108124670000000♠10,812,467 | 7005131990000000000♠131,990 |
| Hungary | 7006984900000000000♠9,849,000 | 7004930300000000000♠93,030 |
| Ireland | 7006462588500000000♠4,625,885 | 7004702730000000000♠70,273 |
| Italy | 7007607956120000000♠60,795,612 | 7005301338000000000♠301,338 |
| Latvia | 7006198609600000000♠1,986,096 | 7004645890000000000♠64,589 |
| Lithuania | 7006292126200000000♠2,921,262 | 7004652000000000000♠65,200 |
| Luxembourg | 7005562958000000000♠562,958 | 7003258600000000000♠2,586 |
| Malta | 7005429344000000000♠429,344 | 7002316000000000000♠316 |
| Netherlands | 7007169007260000000♠16,900,726 | 7004415430000000000♠41,543 |
| Poland | 7007380056140000000♠38,005,614 | 7005312685000000000♠312,685 |
| Portugal | 7007103748220000000♠10,374,822 | 7004923900000000000♠92,390 |
| Romania | 7007198614080000000♠19,861,408 | 7005238391000000000♠238,391 |
| Slovakia | 7006542134900000000♠5,421,349 | 7004490350000000000♠49,035 |
| Slovenia | 7006206287400000000♠2,062,874 | 7004202730000000000♠20,273 |
| Spain | 7007464398640000000♠46,439,864 | 7005504030000000000♠504,030 |
| Sweden | 7006974735500000000♠9,747,355 | 7005449964000000000♠449,964 |
| United Kingdom | 7007647671150000000♠64,767,115 | 7005243610000000000♠243,610 |
| Wales | 3,150,000 | 20,761  |

1. Draw a graph to show the areas of the 28 member states and Wales.
2. Calculate the rank (how many above and how many below?) compared to the 28 member states; of Wales for:
	1. Population &
	2. Area.
3. Draw a graph to show the populations of the 10 biggest cities in the EU and Cardiff.

|  |  |  |
| --- | --- | --- |
| **City name** |  **Country** | **Pop.** |
| London | UK | 11,905,500 |
| Paris | France | 11,532,409 |
| Madrid | Spain | 5,804,829 |
| Berlin | Germany | 4,971,331 |
| Barcelona | Spain | 4,440,629 |
| Athens | Greece | 4,013,368 |
| Rome | Italy | 3,457,690 |
| Hamburg | Germany | 3,134,620 |
| Milan | Italy | 3,076,643 |
| Katowice | Poland | 2,710,397 |
| Cardiff | Wales | 358,000 |

1. Compare Cardiff to the other cities; how many times bigger is:
	1. London
	2. Madrid
	3. Berlin
2. Answer these three questions from the online resource:
	1. How much of an influence do you think that Wales has in the EU?
	2. How do you think Wales compares in importance to large cities such as London?
	3. How important is it for Wales to make its decisions locally in its own Assembly/Parliament?
3. Talking about the money that the UK pays to be a member of the EU; explain the terms:
	1. Net
	2. Gross
4. Why might it be confusing when different sides choose to use either gross or net numbers during the referendum?
5. Why might they do this?
6. Describe the three main EU institutions:
	1. European Parliament
	2. Council of Europe
	3. Commission
7. Rank each of these from most power to least power.
8. Justify (explain) your chosen ranks.
9. Put a subheading **Questions for Enquiry.**
10. Devise some questions for enquiry use these but also add two of your own.
	1. Does the EU cost Wales money?
	2. Which groups might vote to leave and why?
	3. How would my peers vote?
	4. ?
	5. ?
11. Put the section title **Results.**
12. Carry Out a class mock referendum where everyone has a single vote to leave or remain. Record your results in a table.
13. Draw a bar graph to show your class results.
14. Work out the percentages of votes cast for each choice.
15. Draw a pie chart based on the % values that you work out.

100 ÷ Total number of votes x Number of votes for each choice

1. After the real referendum draw a similar pie chart of the real results for:
	1. Wales
	2. UK
2. Compare how your class compares to the rest of the UK and Wales after the real referendum.
3. Put the section title **Analysis.**
4. Put at least one piece of annotation on each graph. An annotation is a piece of writing on or near a diagram which is more detailed than a label.
5. You are going to practice a skill called **cross referencing.** You are going to write some short paragraphs by referring to your maps and graphs. Such as:

***In map 1 you can see……………..***

***Graph 3 shows that ……………………***

1. Use cross referencing to help you write a paragraph about **which** EUcountries have a bigger population than Wales.
2. Use cross referencing to help you write a paragraph about how Cardiff compares to
3. Use cross referencing to help you write a paragraph about if there is any difference between how **you and your class** votes compared to Wales and the UK as a whole.
4. Put the section title **Conclusions.**
5. In question 18 you devised some questions for enquiry; answer each question.
	1. Does the EU cost Wales money?
	2. Which groups might vote to leave and why?
	3. How would my peers vote?
6. Put the section title **Methodology**.
7. Describe how you obtained information from:
	1. **Primary** sources such as carrying out a mock election or carrying out a survey (opinion poll).
	2. **Secondary** sources (information collected by other people.
8. For each type of map or graph that you produced say why you think it was a good choice to show the information.
9. Put the section title **Evaluation**.
10. Evaluate your **process** (how you carried out your investigations (methods)) – what was successful? What went wrong? What could you do differently next time?
11. Evaluate your **sources** – (your information and data) which are reliable and why? Which might be biased and why?
12. Evaluate your **outcomes** – (your conclusions) what is reliable and why? Which may be wrong or inaccurate and why?
13. Formulate more questions for a future enquiry based on your findings; this is especially important to find out if your predictions may be correct after the election.
14. Final Points
	1. Is the EU good for Wales?
	2. Explain your answer.
15. Final Question
	1. Did you personally want to remain?
	2. Explain your answer.