

Mathematics and Social Justice: 'Making a Change'

Name **Tutor Group**

Aims:

- To appreciate that maths can be used to understand and change the world around us.
- To use maths to help develop an argument for making a situation fairer.
- To present and share ideas with students across four different London schools.

The brief:

- Work as a small group.
- Choose an issue related to your everyday lives, and of interest to you, where you would like to see the situation made fairer.
- Research your issue and develop your argument. Think carefully about how maths can be used to support your argument for making a change.
- Use a PowerPoint file (maximum 4 pages) to help present your argument to other students.
- The best three ideas (chosen by the class) will be shared across other classes/schools.

Timeline:

Task	Deadline	Who/ Where?	Done?
Decide on idea			
Conduct initial independent research			
Create any questionnaires / surveys			
Carry out any questionnaires surveys			
Analyse statistics/ collate findings			
Create presentation/ media			
Present to class			
Share with other schools			

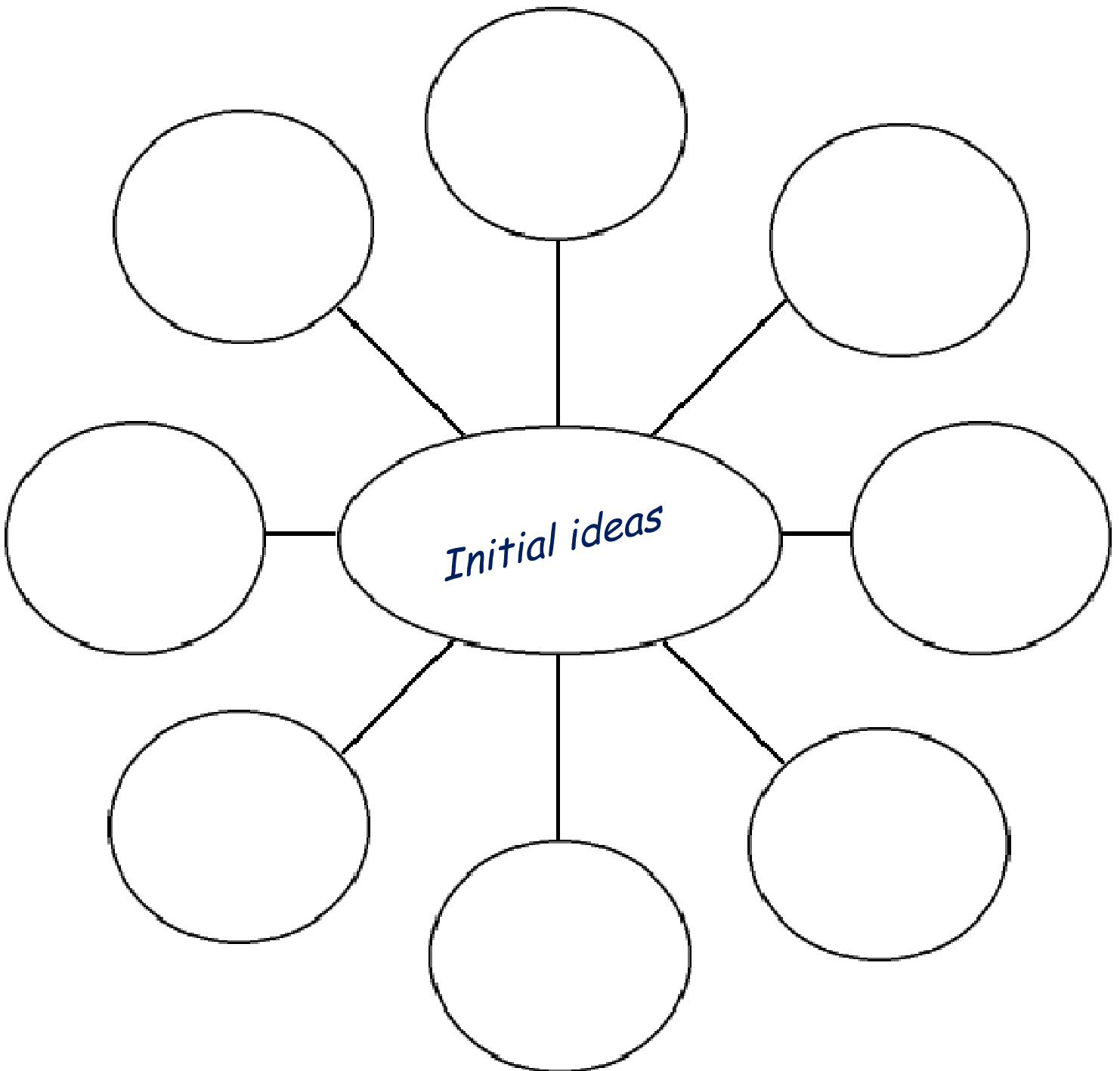
What does the word 'fair' mean to you?

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.....

.....

What issues are important to you, that you think could be made fairer? (Think as big or as small as you like!)



Guidance on developing your argument: Choosing an issue!

Choose a situation/ issue...

- That you think can be made fairer.
- That is of interest to your group.
- Where you will be able to use maths to support your argument for making a change.
- Where suggestions you make for change might be achievable.

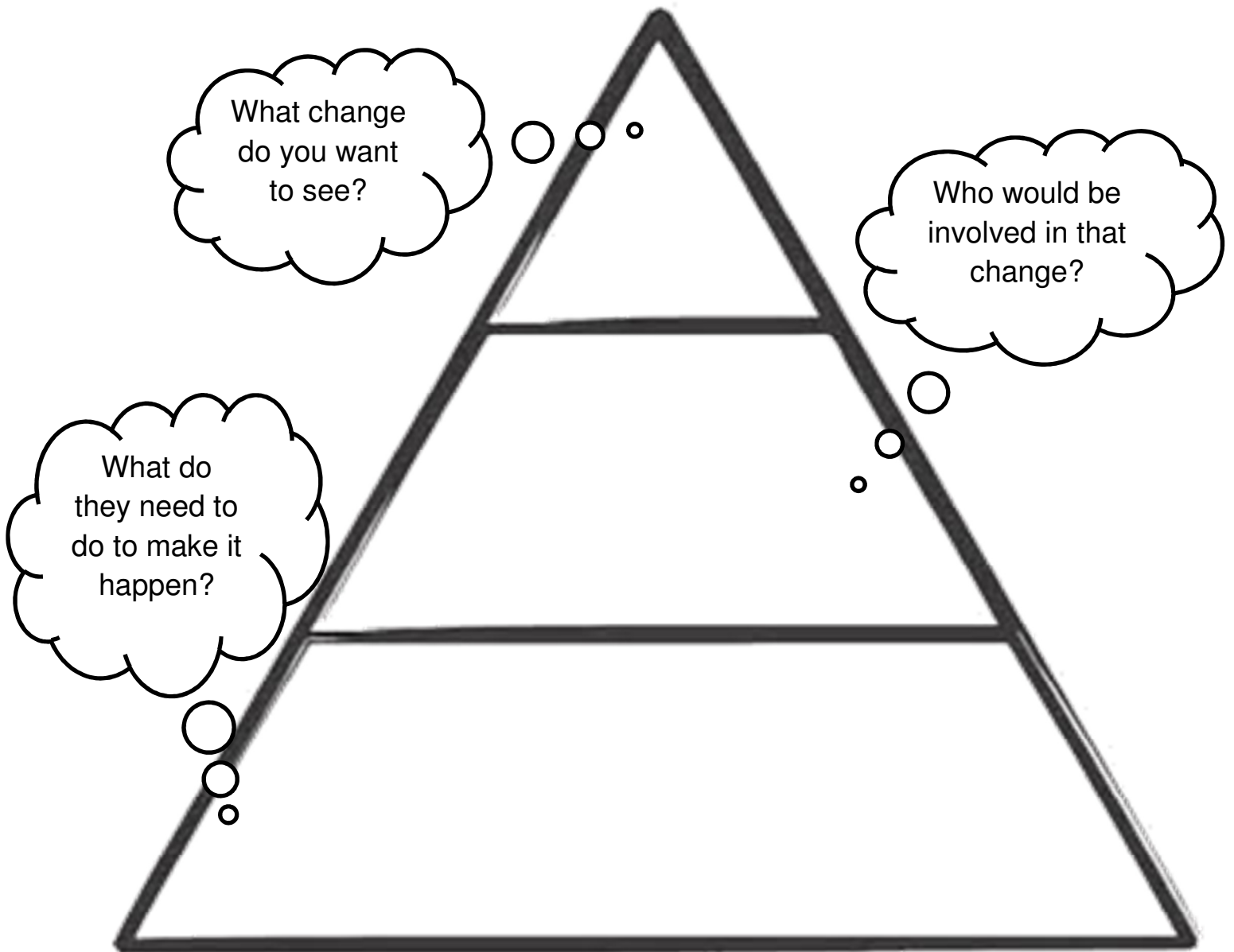
It could be something related to your school, local, regional, national or global community.

It might be to do with educational disadvantage, poverty, sanitation, human trafficking, the living wage, national or local government spending, ...

We have chosen to do our project on...

We feel strongly about this issue because ...

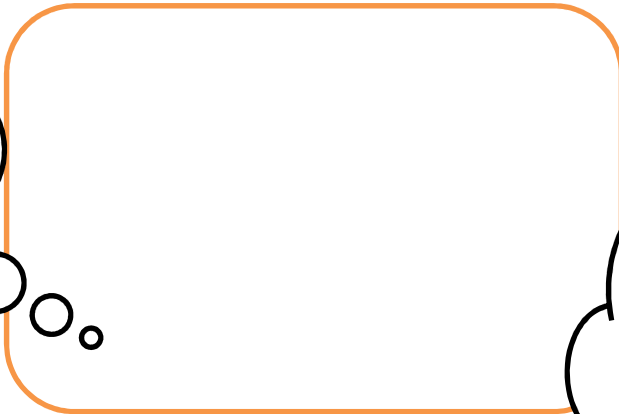
Guidance on developing your argument: Choosing an issue!



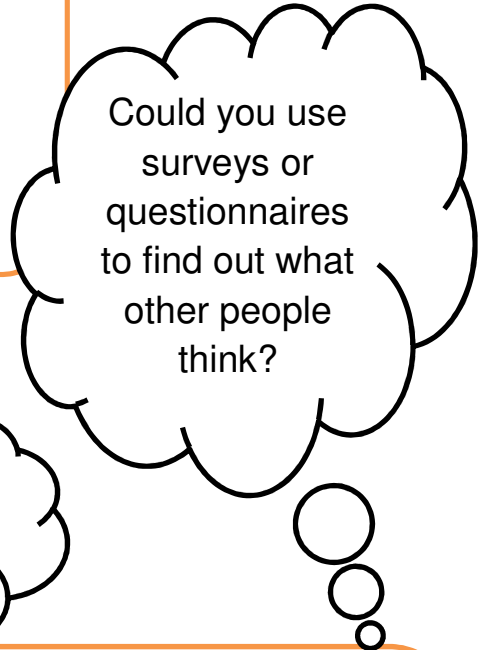
Initial Research – what's the scale of the problem?

Guidance on developing your argument: Backing it up!

What maths could you use to support your argument?



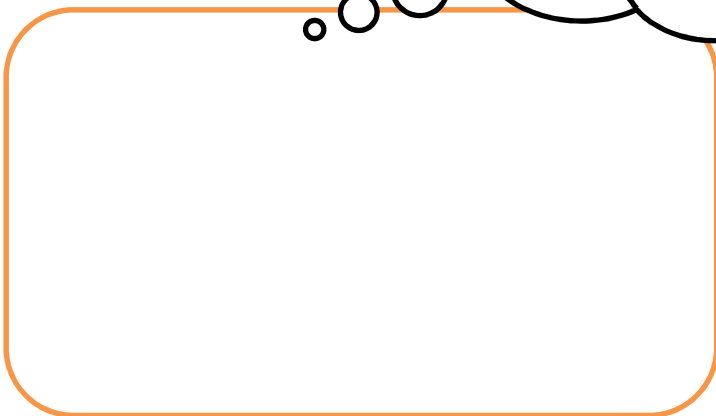
Could you use surveys or questionnaires to find out what other people think?



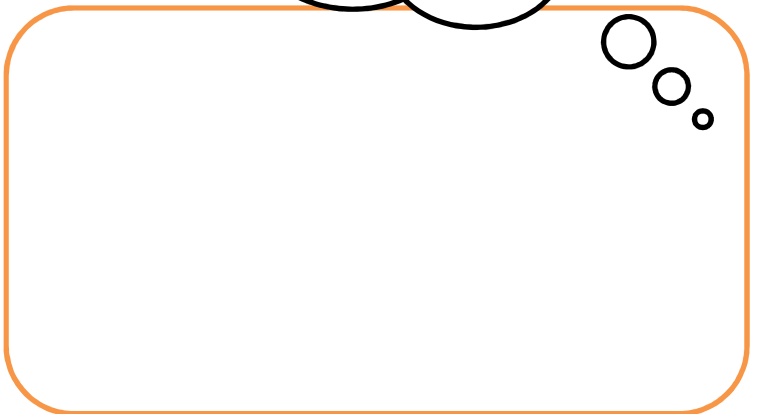
What other maths could you use?



How could you present your information using maths?



What statistics do you have to back up your argument?



Guidance on developing your argument: Presenting!

Introduction - What is the issue?

Why is it important to you?

Back it up with the maths...

Main - Why is it important?

What have you found out?


Back it up with the maths...

Call to action - How can we change it?

What can we do?

Back it up with the maths...

Success criteria for presentations:

Have you...	
...presented a strong and convincing argument for making a situation fairer?	
...demonstrated clearly that you have used maths to support and strengthen your argument?	
...made suggestions for making a change are achievable?	
...ensured all group members contributed towards developing and presenting your argument?	
...made effective use of ICT and other resources in presenting your argument?	

SIT Mark

S trength	
I mprovement	
T arget	