

STUDENT TIP SHEET



FIND A TOPIC THAT INSPIRES YOU

- Maths can be messy! Maths around you may not be where you think it is!
- Think of issues that affect yourself, your community or the world.
- Browse media reports for maths related topics.
- Check out the '100 Inspiring Titles' Think about learning in other subject areas that may inspire you.
- Think about what interests you that you could investigate.
- What would you like to add or change in your world to make it a better place?

COMMUNICATE WHY YOU ARE COMPLETING THIS INVESTIGATION

- How will your investigation make a difference in your world?
- What interests you in the topic?
- What actions might you or other people take as a result of your investigation to make a difference? Where is the maths?

MAKE A PLAN

- What do you already know about this topic? What questions do you have about it? How and where might you find answers to your questions? How will you complete your research, and/or collect, record and display your data?
- What maths and tools might you need to use?
- What do you think you might find out?

CARRY OUT YOUR PLAN

- It is important to keep your notes, photos and rough working as evidence of your research, investigation process, and learning.
- Be ready for the unexpected! Your aim may change. It's okay if your investigation takes an unexpected turn,
- Use correct mathematical language, terminology and symbols.
- Estimate before you complete calculations, to check your results seem accurate.

ANALYSE YOUR FINDINGS

- Summarise your findings.
- Does your result make mathematical sense? Do they make sense in our real world?
- Did you find out what you expected to?
- Discuss your findings with others to check your thinking.
- Use tables, charts, graphs, illustrations, animations, simulations, software, photos, video or other tools to explain what you found.

REFLECT ON YOUR INVESTIGATION:

- Check that your investigation is clearly communicated.
- Ensure you write your references from your research (can we give them an example of what this looks like or is expected) and detail any help that you received.
- Detail evidence (journals, rough working, photos) best show your learning.

WHAT ELSE MAY HELP?

- Set a schedule and work on your MTQ on a regular basis.
- Talk about your project to a teacher, mentor and/or a friend and ask them to give you two things to improve and two things that they think you are doing well. You may need to repeat your investigation to gather enough information to be able to draw conclusions from the data you collect.
- Set achievable goals. Often the small investigations on precise topics are the best!

