



# 50 Simple STEM Challenge

STEM - Science Technology Engineering  
Mathematics



Are you up for a challenge?  
Can you complete the 50 challenges?

Take pictures of each activity and you will be entered into a prize draw for some Bluewater vouchers!

1	Read a book/article with a STEM theme.	26	Draw your own comic book/strip.
2	Make an object out of recycled material.	27	Make a time capsule that you can open in 10 years time.
3	Invent something to solve a problem at school or at home.	28	Write instructions to make a sandwich & let someone follow them exactly.
4	Write your own short story, including a cover.	29	Learn how to cook a new recipe.
5	Make dinner for your family.	30	Skype or facetime a relative and see how they are doing.
6	Read a book and make a book trailer.	31	Make some kind of living house for wildlife to use in your back garden. (If you do not have a garden then it can be placed in the garden at school).
7	Paint rocks with encouraging words.	32	Make an interesting structure from Lego/Technics.
8	Write a list of all birds you see in the garden/outside space in the space of 30mins.	33	Write a letter to your future self explaining what life is like at the moment and the dreams you would like to achieve.
9	Make a slow-motion video of something in nature.	34	Research and learn about a STEM career.
10	Play a board game with the family.	35	Take a walk in your garden and listen to the sounds...Make a note of what you can hear. (If you have no garden listen out of a window of where you live).
11	Invent a board game using bottle caps and other small items as pieces.	36	Learn about the history of an everyday piece of technology.

12	Research and see how mobile phones have changed over the decades.		37	What is the best invention of something that you use and why?	
13	Invent the next type of mobile phone.		38	Do a household chore that you wouldn't normally do.	
14	Make art using leaves/sticks or other nature products.		39	Talk to your parents/carers about their best school memory.	
15	Watch an episode of 'How it works'.		40	Play a card game that involves numbers.	
16	Use the website PixarInABox.com to learn how animated movies are created.		41	Read about the advances in artificial intelligence and the ethics of technology. (If possible watch I,Robot).	
17	Try creating your own animated movie.		42	Make a maze from lego or similar.	
18	Test objects that you have lying around to see if they float or sink - try predicting first - are you correct?		43	Try origami.	
19	How many words can you make from the letters in 'Longfield Academy' - write a list.		44	Make paper aeroplanes using foldnfly.com	
20	Try sewing, knitting or crocheting.		45	Create a codebreaker for someone else to crack.	
21	Learn 10 words in sign language.		46	Design an all new high technology house for the future.	
22	Create a wordsearch using positive/happy language.		47	Find your dream job and look up what qualifications you need and how much you could earn as a trainee and fully qualified.	
23	Make Solar S'mores.		48	Draw the floorplan of your home.	
24	Write about a 'dystopian' or 'utopian' land.		49	Write an argument or debate on doing Veganuary.	
25	Design and build a catapult.		50	Teach an adult in your house how to do the box method of multiplication.	