

The logo features the word "STEMPOINT" in a bold, dark blue, sans-serif font. Below it, the word "East" is written in a smaller, italicized, dark blue font. The text is partially enclosed by a large, stylized, light blue oval shape with a dark blue outline. The background is a bright blue sky with a sunburst in the top left corner and white clouds.

STEMPOINT *East*

SUMMER STEM Activity Pack



STEM WORD SEARCH

R	R	E	S	E	A	R	C	H	E	G	A	H	M
M	O	L	E	C	U	L	E	A	X	E	V	A	T
E	I	R	E	O	A	L	V	E	P	N	U	Y	E
A	E	E	E	Y	A	E	A	T	E	E	L	R	C
S	L	D	H	R	N	R	L	E	R	T	T	O	H
H	B	M	E	T	S	U	U	B	I	I	R	T	N
T	A	N	X	S	E	S	A	U	M	C	T	A	O
A	I	Y	A	I	C	A	T	T	E	S	H	R	L
M	R	M	N	M	N	E	I	T	N	D	E	O	O
E	A	N	C	E	E	M	O	S	T	A	O	B	G
A	V	R	L	H	I	Y	N	E	S	T	R	A	Y
T	E	O	T	C	C	M	M	T	E	A	Y	L	C
C	T	B	U	N	S	E	N	B	U	R	N	E	R
A	N	Y	T	H	I	S	T	N	E	M	E	L	E

GENETICS
LABORATORY
BUNSEN BURNER
MASS
TECHNOLOGY
TEST TUBE
THEORY
MINERAL
SCIENCE
EXPERIMENTS
MEASURE
ELEMENTS
EVALUATION
MOLECULE
RESEARCH
VARIABLE
MATHS
STEM
DATA
CHEMISTRY



DECODE THE MESSAGE

Each letter in the phrase has been replaced with a number.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
3				8				12						23						16					

$$\begin{array}{ccccccc} \text{I} & & \text{I} & \text{E} & \text{A} & & \text{O} & \text{O} & & \dots & \text{A} & & \text{A} \\ \hline -24 & -10 & -12 & -14 & -25 & & -18 & -12 & -25 & -8 & -9 & & -15 & -4 & -23 & -24 & -23 & -14 & & -9 & -18 & -19 & -9 & -5 & -7 \\ & & & & & & & & & \text{O} & & \text{I} & & \text{I} & & \text{E} & & & & & & & & & & & \\ & & & & & & & & & -15 & -23 & -2 & -12 & -24 & -12 & -20 & -8 & & & & & & & & & & \end{array}$$

STEM RIDDLE

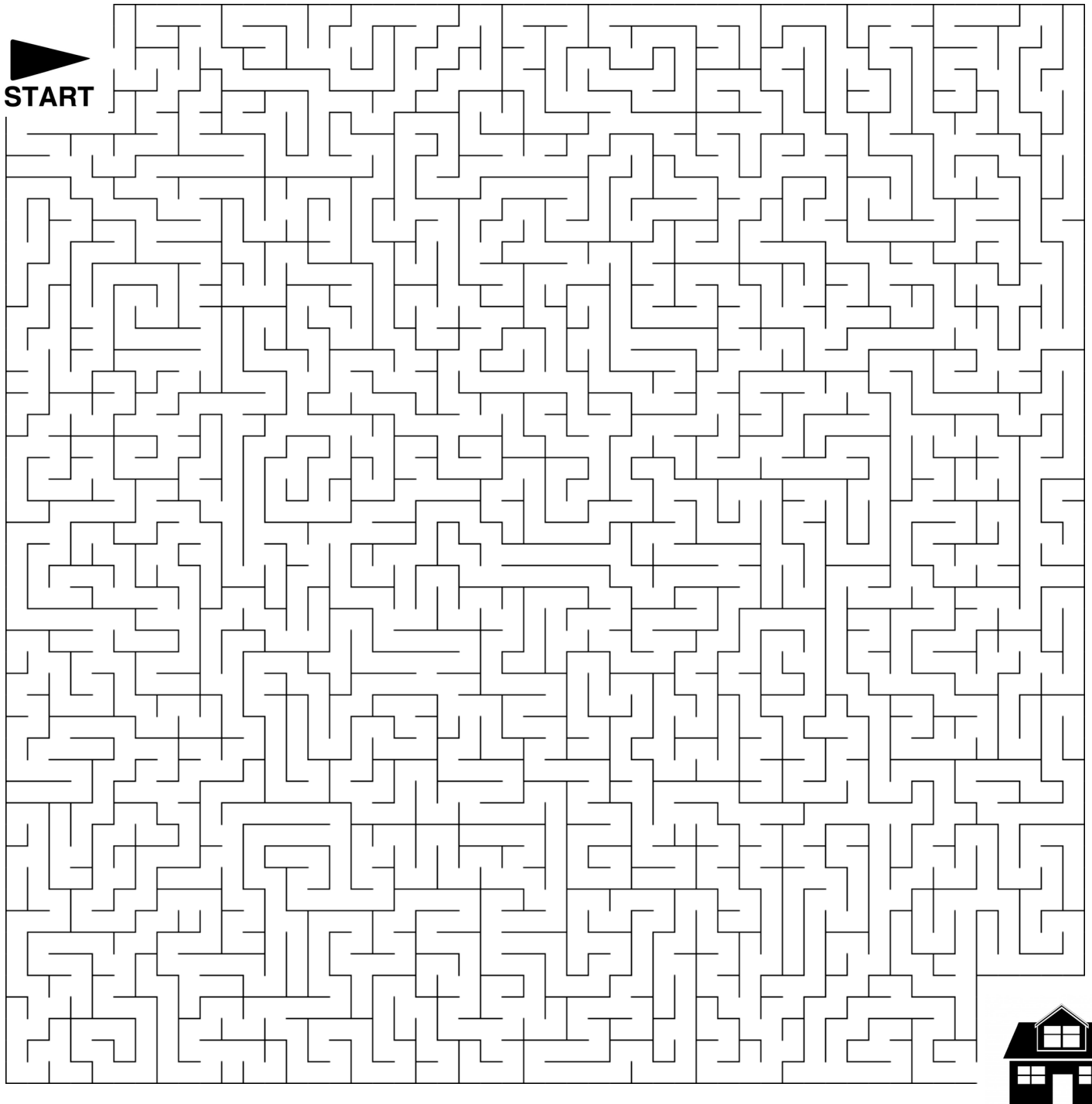
A young boy lives on the 10th floor of a 10-story block of flats. Every morning he takes the lift down from the 10th floor to the first floor and goes to school.



When he comes home from school, he gets on the lift, rides to the 5th floor and then walks the final five sets of stairs to the 10th floor. Why?



Make your way through the maze to get home...

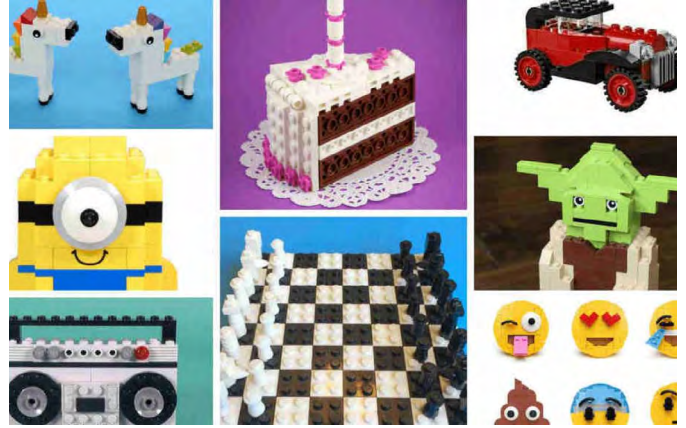


Boredom Buster Ideas



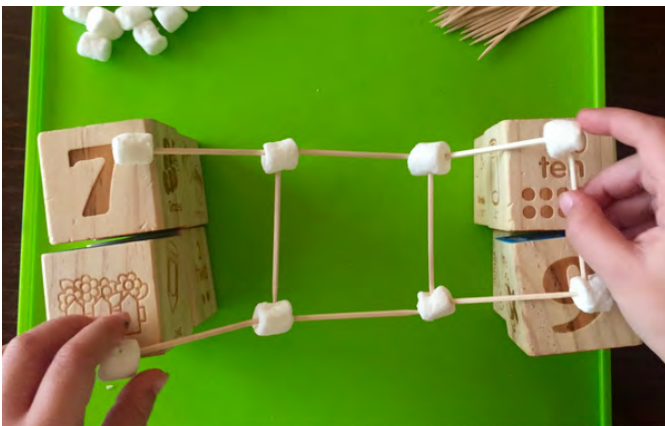
Make Giant Bubbles

All you will need is 1ltr of tap water and 3tbs of Fairy Liquid. You can make a wand using string and sticks.



Become a LEGO Master Builder!

Use your imagination and creative skills to create unique models.



Marshmallow and Toothpick Bridge

Challenge your engineering skills by creating a bridge and add weight until it collapses!



Build a House of Cards

Do you have a steady hand? See how many cards you can balance before they take a tumble.

Going to the beach? Make a Beach in a Bottle

Add sea water, sand, shells and seaweed then shake it, and watch it separate back into ocean and beach!

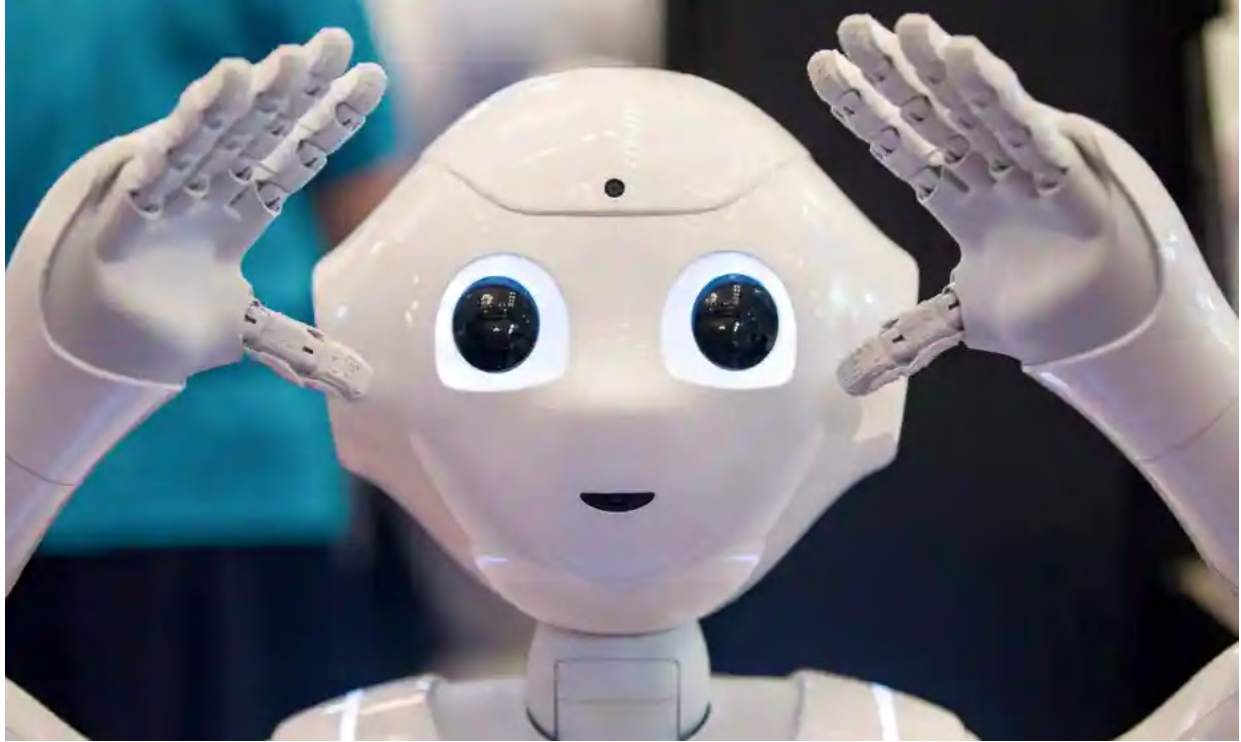


Share your Summer STEM experiments and makes with us on Facebook or tag us on Instagram [@stempointeast](https://www.instagram.com/stempointeast)

Future STEM Jobs



Jobs like being a YouTuber or an Instagram Influencer were not even thought about in the 1990s. Think about what the job market might look like in 2030 and why STEM is so important.



- **Electric Car Engineers**
- **Robot System Repairs**
- **Cyber security experts**
- **Drone Technicians**
- **Space Explorers**
- **AR and VR Creators**
- **Green Power Creators**
- **Biotech Engineers**
- **Future Farmers**
- **Special Effects/CGI Experts**

Another thing to think about are the jobs which are around today that probably won't be required in the future...

Can you think of any more ?

There are over 3000 STEM Ambassadors within The East of England and over 45,000 nationally.

I am an Industrial
Placement Engineer
at BAE



I am an Engineering
graduate at Perkins



I am an Engineering
Degree Apprentice at
MBDA



I am an Senior Business
Specialist & Finance
Transformation Change
Manager



I am a Professor at
Cranfield University



I am a Graduate
Engineer at Perkins



I am a Director of
Statistics



I am a Technology
Transformation Partner



I am a Regional
Director



We are all STEM Ambassadors !

Hear from a real-life STEM expert!
The STEMPOINT East [YouTube channel](#) has lots of STEM Ambassadors videos you can watch. Hear all about their career paths and job roles.



Decode the message: Think Like a Proton...Always Positive!

Riddle answer: He is only tall enough to reach the button for the 5th floor. The higher-numbered buttons are out of his reach.





If you are at home, why not check out these websites for some STEM inspiration of fun things you can do:

<https://www.stem.org.uk/home-learning/family-activities>

<https://littlebinsforlittlehands.com/category/stem-challenges>

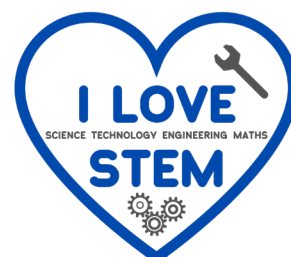
<https://kidpillar.com/51-outdoor-stem-activities-for-kids>

<https://thehomeschoolresourceroom.com/2020/04/23/outdoor-stem-activities>

<https://www.educateoutside.com/resources/stem>

<https://www.steamsational.com/easy-outdoor-stem-activities-you-can-take-outside-in-any-weather>

<https://www.asymca.org/military-family-survival-guide/6-simple-outdoor-stem-activities>



STEMPOINT East are an educational charity whose aim is to inspire young people in science, technology, engineering and maths (STEM).

