



#STEMILLIONS

STEMillions

ABOUT

Teachers Pack

STEMettes
♥ ★ #

FOR TEACHERS AND
ADULTS WANTING TO
RUN A STEMILLIONS
CLUB FOR CHILDREN
AGED 5-11



STEMettes

STEMillions+

Stemillions for Primary Schools

Introduction

STEMillions+
Dr Eugenia Cheng
Meal Plan #049
30 mins
First released Autumn Term 2018

Starters 5-10 mins
Announcements..... 1 min
Share club member achievements..... 20 mins
Snack: Cackle & Pop..... 2 mins
Snack: Candy Kittens! Yummy
Cackle

Mains 20 mins - choose ONE only
MAKE..... 20 mins
Pythagoras Sweets: for this activity, you will need Starburst or other square sweets. Follow the steps below or this video explains the activity:
[bit.ly/D49Snack](#)
1- Create a right-angle triangle with short sides of 3 & 4 starbursts & the hypotenuse 5 starbursts long.
2- Now create squares on each side of the triangle, so on the 3 side, the square will be 3 x 3 starbursts; do the same for the 4 and 5 side.
3- Now take the starbursts from the two shorter sides and place them on top of the sweets that form the hypotenuse square.
★ Do the starbursts from the shorter sides completely cover the longer side?
Do these triangles follow the same rule?
• 6, 8, 10? • 4, 5, 6?
• 5, 12, 13? • 2, 3, 4?
★ Why do some of these work & others don't?
★ What other combinations of numbers work?

EXPLORE..... 20 mins
Dr Eugenia is a mathematician and pianist. Make a song or rap about your favourite topic in Maths. Maybe you're really good at trigonometry, geometry, indices, probability, it can be anything! You could look up music to sing/rap along to on YouTube, but the most important aspect is the lyrics! If you want, perform your hit song to the rest of your club. If you want some inspiration, [bit.ly/D49Singers](#)

Desserts 5 mins
Share with us..... 1 min
Upload photos on Twitter or Instagram and tag @Stemettes and #Stemillions.
Ask Away..... 2 mins
Got a question? Ask Away! [bit.ly/Ask_Away](#)
Digest..... 2 mins
Digest this Meal Plan [bit.ly/Digest049](#)

Keep up to date with Stemettes in The Stemettes Society.
Any queries? Email schools@stemettes.org or message us in The Stemettes Society.

Bring a Stemettes-style experience to your Primary School by running a new club at lunchtime or after school. Club members will do a range of STEM activities related to real women in STEM and explore a range of careers. The club will need to work as a team to progress through the Meal Plans.

The club can be run as an extracurricular activity any day of the week either at lunchtime or after school, or incorporate the activities and role models into lesson plans. We will provide a choice of activities for you to choose from each week. All the activities have been designed to only use materials and equipment you would commonly find around the classroom, but it is always advised to check the Meal Plan in advance in case you do

not have access to certain materials.

Here at Stemettes our motto is *Free, Fun, Food*. So all the activities are free and fun and they are designed around a menu. You start with your Starters where you meet this week's role model and her career. You then move onto mains, choose only one main activity unless you want your club to last longer. Finally you finish with desserts, this is where you will give us feedback, at the end of each feedback form is the password to unlock the next Meal Plan.

Stemillions Dictionary:

- ★ Meal Plan = weekly activity
- ★ Digest = feedback form
- ★ Starter = introduction

THIS IS WHAT A MEAL PLAN LOOKS LIKE

STARTERS:

Start by celebrating any club member achievements

Load up the Stemillions playlist and have a snack and a bit of a laugh with your club

Get to know the role model; read out the bio we have written and then play the video

After the video, take a couple of minutes to talk about it as a club and try to answer our questions

STEMillions
Zaha Hadid DBE
Food-related Science News 2024

Starters 9-10 mins
1. Celebrate any club member achievements
2. Load up the Stemillions playlist and have a snack and a bit of a laugh with your club
3. Get to know the role model; read out the bio we have written and then play the video
4. After the video, take a couple of minutes to talk about it as a club and try to answer our questions

Mains 20 mins
1. Watch the video: [Zaha Hadid DBE](#)
2. Read the bio: [Zaha Hadid DBE](#)
3. Answer the questions: [Zaha Hadid DBE](#)
4. Share your answers with the club

Desserts 10 mins
1. Complete the feedback form: [Feedback Form](#)

MAINS:

Choose between 2 activities...

MAKE: follow instructions and get creative

EXPLORE: discover more about the role models STEM career

DESSERTS:

Share photos of your club with us

If any club members have questions, they can ask our industry experts

Digest the Meal Plan by telling us how it went

Process

Before the Club:

- ★ Bookmark the Cohort A webpage, you will need this to access all the Meal Plans.
- ★ Check the materials and equipment needed for the upcoming Meal Plan.

On the Day of the Club:

- ★ Get out the corresponding equipment needed to complete the club.
- ★ Load up the corresponding slides.
- ★ Run the club.
- ★ Fill out the Digest, you'll need to do this to get the password to unlock the next Meal Plan.
- ★ Choose a new leader for the next club meeting.

After the Club:

- ★ Share any photos of the club in action with us on social media (Instagram, Twitter, Facebook).
- ★ Take note of the password at the end of the feedback form, and please do not share these with other schools.

FAQ's

How many members can be in a club at a time?

We recommend 10 members per club, but this is just a recommendation.

How long does it take to complete these Meal Plans?

Each Meal Plan should take 30 minutes each to complete. If you do one Meal Plan each week, it will take you one term to complete all these Meal Plans.

I've lost the password for the next Meal Plan!

Please email lucy@stemettes.org, she will be able to provide you with the correct password.

Will stopping for half-term be a problem?

No, you can continue as normal once you are back from half term, just remember which Meal Plan you need to do next and the password to access it.

Once I've completed these 10 Meal Plans what do I do?

Please incorporate the role models into your current lesson plans so your students are exposed to more women in STEM.

The Meal Plans and activities can be re-used with a new set of students after the term has finished to introduce more students to the STEM-azing role models we have featured. You can also purchase a Stemillions box. The box will contain a new set of 10 Meal Plans and we will provide:

- ★ 10 x new Meal Plans based around 10 different female STEM role models
- ★ 1 x Teachers Pack with a breakdown of each Meal Plan and links to the National Curriculum.
- ★ 10 x backpacks for each club member
- ★ 10 x badges for each Meal Plan
- ★ 10 x certificates for each student at the end of the term
- ★ Materials/equipment needed to complete each Meal Plan

The box is £750. You can find out more and purchase the box at

stemettes.org/stemillions/primary