STEMillions

Margaret Hamilton

(b. 17/08/36)

First released Autumn term 2017

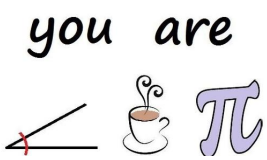
Meal Plan **#012**

30 mins

Starters

Announcements..... 3 mins
Nearby upcoming STEM events & competitions, Club member achievements and welcome new members.

Snack, Cackle & Pop..... 2 mins
Eat: *Chocolate Digestives. Yum*
Listen: *'Don't stop me now' by Queen*
Science Meme:



Meet Her..... 5 mins
Margaret is a computer scientist, systems engineer, and CEO of Hamilton Technologies, Inc. She was Director of the Software Engineering Division of the MIT Instrumentation Laboratory, which developed on-board flight software for the Apollo space program.

Watch youtu.be/PPLDZMjgaf8 *(4 min video)*

Desserts

Share with us ..... 2 mins
Upload a photo of your MAKE or summary of your EXPLORE to the online forum. Or tweet/instagram it (remember to tag us)

Club Register..... 1 min
Let us know the OtotheB usernames of people who attended this week in your group on MightyBell. You'll get less points per non-OtotheB person on your register.

Ask Her..... 2 mins
Post your burning career Questions for our STEM role models to the Agony Aunt Topic.

Digest..... 2 mins
Do the #012 Digest on OtotheB, before the end of the day.

Mains *choose ONE only*

MAKE..... 15 mins
Make an infographic about the 'Hidden Figures of NASA': Katherine Johnson, Dorothy Vaughan & Mary Jackson are a great place to start. Can you find any more?

EXPLORE..... 15 mins
Controlling Space Rovers involves communication over a large distance (to Mars) and can take up to 20mins.
If you have 6+ members, split your club into two, otherwise share your results with the rest of your tribe.
Put some paper on the floor in the room - these are space surface rocks. Put some pens on the floor - these are rock samples. 2 or 3 of you will play the Rover.
The Rover is blindfolded and hold the shoulders of the person in front of them. 1 person will play the Rover Driver, 1 person will play the Official.
The Rover Driver will walk through and plan a journey for the Rover to avoid the surface rocks and collect samples by counting their steps and turns and putting these on a commands sheet.
Now the Official will read the instructions out for the Rover to follow. They must read exactly what is on the command sheet and note down any time the Rover stands on a piece of paper - this is a foot fault. The Rover Driver must time how long it all takes. Add 10s for every foot fault, take off 15s for every rock sample retrieved.
Keep a leaderboard and switch roles.
Remember, the aim of the game is to complete the task as quickly as possible.

Visit stemillions.club to gain points for this Meal Plan.
Any queries? Email stemettes@gmail.com or post in Mighty Networks.