

First released Spring Term 2021



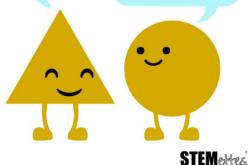
Meal Plan #105 60 mins

Starters 5-10 mins

Snack, Cackle & Pop...... 2 mins Snack: we \heartsuit food, grab a snack before beginning! Cackle:

You're pointless

That's how I roll!



Pop: Stemillions playlist on Spotify: <u>bit.ly/stemillionsplaylist</u>

Discuss:

- ★ What do you think of Isabella's subjects?
- \star What is your favourite science?

Desserts 5 min

Share with us 1 min Upload photos on <u>Twitter</u> or <u>Instagram</u> and tag @Stemettes and #Stemillions.

Ask Them......2 mins Got a question? Ask Away! <u>bit.ly/Ask-Away</u>

Digest..... 2 mins Digest this Meal Plan - fill out the feedback form.

Mains 20 mins - choose ONE only

MAKE...... 20 mins Ingredients: Objects of different weights, a stop watch, a chair.

Isabella loves maths and physics, one topic that involves both of these topics is called Quantum Physcics. One of the many things Quantum Physicists research, is how exactly does gravity work? In this activity we will experiment with gravity.

★ Question: If we drop a heavy object and a light object, which one will hit the ground first?

Gather items of differing weights and sizes, such as a ball, action figure, a book, and a balloon.

Carefully, stand on top of the chair while holding the items. One at a time, drop each item from the same height. Keep track of how long it takes each item to reach the ground.

At first, you might have predicted that the, heavier items will hit the ground first, this is not true. The rate of Earth's gravitational pull on all objects is the same regardless of weight. Given the absence of air resistance, each object should reach the floor at the same time. Do your finding support this?

Isabella absolutely loves maths! There are lots of fun topics in maths, make a poem or song about your favourite maths topics. You might need to start by thinking about all the topics you have studied in maths so far, which on was your favourite? Think about some of the key points you have learnt about this topic and turn them into a poem to share with other people to help them learn about this maths topic.