



First released Autumn Term 2018

Starters 5-10 mins

Announcements.....1 min
STEM events/competitions (check OtotheB),
share achievements and welcome new members.

Snack, Cackle & Pop..... 2 mins
Snack: Percy pigs. Yummy
Cackle:

Why did the sun go to school?
To get brighter!

Pop: Put Your Records On by Corinne Bailey Rae
Meet Her..... 5 mins
Leila Madrone has a Bachelors and Masters from MIT in Electrical Engineering and Computer Science with a focus on robotics and mechatronics. She then worked for NASA's robotics hardware, before founding Sunfolding in 2012. Sunfolding develops new solutions for solar power and develops tracking technology for the solar industry. She now serves as CTO.

Watch: [Meet Leila in this video](#)

Discuss

- ★ What do you think of Leila's job?
- ★ How hot do you think the sun is?
- ★ If you could visit anywhere in space, where would you go?

Desserts 5 mins

Share with us 1 min
Upload photos to MightyNetworks or tweet/insta.

Ask Her..... 2 mins
Post any questions to the Agony Aunt Topic.

Digest..... 2 mins
Do [#056 Digest](#) on MightyNetworks or bit.ly/digest056

Mains 20 mins - choose ONE only

MAKE..... 20 mins
Edible Sun: Each member needs a plain cookie/
round biscuit and ask them to spread white frosting
on top. This forms the surface of the sun.

- ★ Shake some yellow and red sprinkles on the frosting. These form the granular appearance of the photosphere. **Why is the surface of the sun like this?**
- ★ Place chocolate chips on the cookie to serve as sunspots. Sunspots appear in pairs so put two chips close to each other. **What is a sunspot?**
- ★ Place a few short pieces of strawberry laces on the cookie, forming small arches standing straight up. These are prominences. Prominences are generally found near sunspots, where the area is active and has a stronger magnetic field. **What are prominences?**
- ★ Place some liquorice above your sunspots. These act as filaments. **What are filaments?**
- ★ Can you add any other features onto your cookie sun?

Before you enjoy eating your cookie sun, take a photo and share it with us on MightyNetworks and Insta/Twitter.

EXPLORE..... 20 mins

Leila has developed solar tracking technology for the sun. For this EXPLORE, have a look at the life cycle of the sun. Create a poster or powerpoint explaining each phase of the sun. A good place to start might be with the [Star In A Box](#) with facts about the brightness and temperature of stars. How do stars life cycles differ when they have a higher mass?