



THE STEM COMMUNITY ALLIANCE PROGRAM WITH PROFESSOR NALINI NADKARNI AND LAURA GEORGE

TALKING POINTS

KNOWLEDGE

1. What are the five 'Grand Challenges' addressed by Mission STEMCAP?
2. What programme did Nalini set up in 2003 to provide environmental education to adults in prison?
3. List four pieces of evidence that show that STEMCAP is having a positive impact on both youth-in-custody and its guest presenters.

COMPREHENSION

4. What do you think 'incarcerated' means?
5. What are the benefits for youth-in-custody (YIC) in studying environmental issues?
6. Why is the main aim of STEMCAP's topical presentations not to teach science?

APPLICATION

7. Think of the last science lesson you attended. What materials did you use that would not be allowed in a YIC centre?

ANALYSIS

8. What are the differences between a typical science class at your school and a STEMCAP topical presentation?
9. How is 'familiarity with your environment empowering'? Can you think of some examples?

SYNTHESIS

10. How would you recreate your last science lesson without the materials you listed in question 7?

EVALUATION

11. Do you feel, as Laura does, that 'nature is healing'? Why / why not?
12. Do you think your curriculum includes enough environmental education? Why / why not?

ACTIVITIES

1. Do some research on youth-in-custody education in your area. Here are some questions you could try to answer:
 - How many young people are in custody in your country/state?
 - What kind of an education do YIC receive? Do they follow the same curriculum as you?
 - Are there any programmes like STEMCAP that help to enrich their education?
 - What difficulties are there with delivering education for YIC
2. Contribute to a citizen science project, like some STEMCAP participants do. Go to [zooniverse.org](https://www.zooniverse.org) and have a look at the different projects you can take part in. Most require you to help by categorising images. Find one that interests you and become a scientist!

MORE RESOURCES

Watch Nalini's talk 'Bringing Forests into Prisons', in which she discusses how images of nature can improve the wellbeing of people who are incarcerated:
youtu.be/EN4iEKw5jZA

Learn more about Nalini's life and career, including the time she fell from a tree, in this BBC radio programme:
www.bbc.co.uk/programmes/p07bshs6