

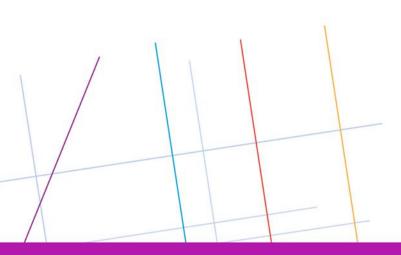


Your Contributions to the Webinar

Planning Science Learning Across the Strands – Exploring Connections

27th March 2019

This document contains the responses from teachers to the questions posed during the webinar on www.menti.com







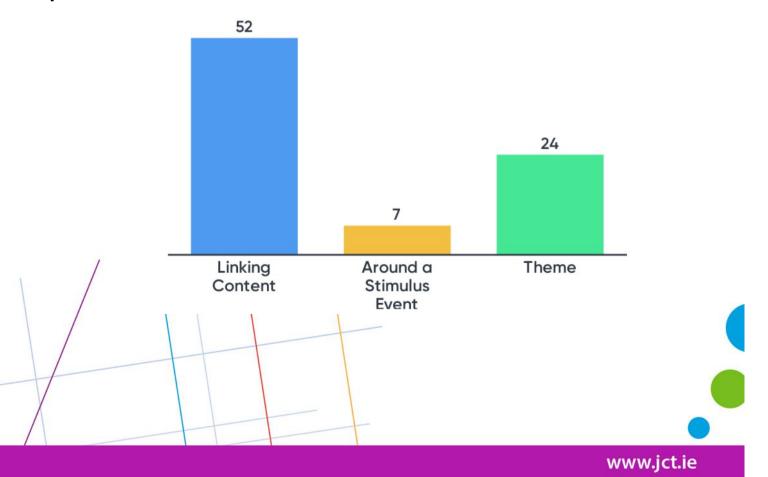
Menti 1

How have your students responded to learning about Earth and Space?



Menti 2

What approach to developing Units of Learning currently appeals the most to you?



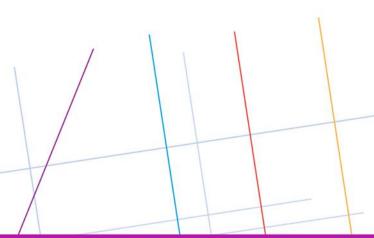




Menti 3

Ideas you have for themes for a unit of learning

The history of Science We are part of a citizen Chemistry of the garden science pollinators project and could build a unit around this Plast8c bottles and the effect they have on the Sustainability environment. Links periodic table as well as carbon cycle and the flow of matter through ecosystems as well as our impact on the planet How scientists work from NoS 1 through different contextual Linked lots of Learning Outcomes to the periodic table because it's the anniversary of the PTE. At the end of different sections we look at how it strands oceans links to the periodic table. Effect of ocean acidification on shells of shellfish. Covers acids and bases, adaptation, greenhouse gases, carbon cycle, food production Coffee bean to cup Space travel/Space week Energy across the strands Mining data big and small Photosynthesis Sports science What science is in the news Climate change. Chemistry of The facts of matter - PW, E&S today? space. and CW then into cells Climate change Food Space travel Sustainability periodic table Energy hospital : cells, microscope, organ systems, human reproduction energy crisis: energy, Carbon cycle to acidification of oceans to acids and bases and exothermic reactions to impact **Environmental science Health** of climate change sustainability







everyday nutrition and sustainable farming:

Biochemistry - molecules for life energy changes

How gases produced naturally (respiration) can have positive (photosynthesis) and negative (climate change) effects.

Pressure, physics, the heart, blood pressure...

ldeas in relation to building up the periodic table from nuclear fusion in stars. The heavier rarer elements being only created in larger stars towards the end of the giant stars' life.

Photosynthesis, Biodiversity, Climate change

Sustainability of elements in mobile phone, why they were chosen, their characteristics Energy. Sustainability. Chemical and physical change.

Link the periodic table to the fact that many elements are running out. So teach periodic table with the life cycle of materials and other ideas around sustainability

production of gases in rates of reaction ...can be linked to climate change and gases.... The circle of life looking at carbon/water cycles plus reproduction and stars giving us elements

Linking with the European Space Agency which links space and engineeering

Rates using gas preparation

Plastics: Chemistry of plastics – CW4 atoms Properties of plastics – non conductor , ductile Density of plastics –experiment on sink and float Environmental effects: marine animals , plastic pollution Ecology of marine animals – Photosynthesis, carbon cycle, temperature effects on solubility, water acidification, climate change

Energy/food/chemical reactions/sustainability/respir ation/photosynthesis/electric al energy

Comparison of planets

Topical items on YouTube that students will easily relate to, e.g. flat earth theory, map making on fortnight as the use of satilitte, whether Pluto is a planet

Movement: Molecules, solids,liquids, gases, transport in plants and animals, speed, velocity Climate change- c cycle, energy

Pathogenic microorganisms and the future of human health. Sustainability and the future of humans

Circuits used to create a device, then adjusting efficiency by adjusting materials used (conductivity, resistance), then investigating advantages/disadvantages of power supplies (batteries, power pack, renewable)

Connections between photosynthesis, respiration and chemical equations – this leads to discussion on health, food, exercise, how we can change societies attitude to exercise – this leads on to mental health – which leads back to chemical imbalances.

protecting the earth

