

	<b><u>Science Trail Questions</u></b>	<b><u>Answer Options</u></b>	<b><u>Correct Answer</u></b>	<b><u>Did you Know .....</u></b>
<b>1</b>	How many tonnes of food waste do we throw away every year in Ireland?	100 Tonnes, 1,000 Tonnes, 1 million tonnes, 1 Billion Tonnes	1 Million Tonnes	According to the Department of Communications, Climate Action and Environment, a third of all food waste comes from households, and can cost each home up to EUR 1000 per year! 60% of all food waste is avoidable if we just better manage our purchases and portion sizes!
<b>2</b>	How long does it take for glass to decompose	1 year, 100 Years, 1,000 years, 1 million years,	1 million years	Glass is one of the longest-lasting man made materials. Recycling glass is even more important because crushed glass - known as cullet - has a lower melting point than the raw materials used to make glass, and so reduces the energy and CO2 emissions from the manufacturing process.
<b>3</b>	How many sea birds do scientists estimate die every year because of marine litter	10000, 100,000, 1million	1million	Plastics make up 80% of all marine litter and birds can die when they get entangled or ingest the litter.
<b>4</b>	All ingredients in Osta's 'Sligo Breakfast' are sourced within just 80kms, but which item travels the furthest?	Bacon, Black Pudding or Eggs	Black Pudding.	Food miles is the distance your food travels from where it is grown to your plate. Locally sourced food is not only better for the environment, your health and the economy but it usually tastes better too!
<b>5</b>	Which of these foods will we be eating in the future?	insects, jellyfish, algae, all of the above	all of the above	A growing global population, food security and other impacts of climate change suggest we will be relying on different food sources by 2050, including lab-grown meat, insects, algae and jellyfish!

6	The school climate strike movement 'Fridays for Future' was initiated by which teenage activist?	Greta Thunberg	Greta Thunberg	Did you know, 25 years before Greta Thunberg addressed the UN on our climate emergency, Severn Cullis-Suzuki from Canada spoke at the Rio Earth Summit about climate change and the threat to our future? Severn was just 12 years old at the time!
7	Where does Ireland rank against other European countries in the Climate Change Performance Index?	First, Fifth, Last	last	Ranking 49th, Ireland is the worst performing European country in the Climate Change Performance Index (CCPI). According to national experts, Ireland is one of the few EU countries to miss its 2020 emission reduction targets under the EU effort-sharing decision.
8	What common waste item was recycled to make this fleece top?	Plastic Bottle, Aluminium Can, Cardboard Box	Plastic Bottle (PET - Recycled Polyester)	Patagonia uses plastic bottles, unusable manufacturing waste and worn-out garments to produce recycled polyester fibres for clothing.
9	By how much has the earth warmed in the last 100 years?	1°C, 10°C, 5°C	1°C	Gases released in our atmosphere from the burning of fossil fuels act as a blanket, trapping heat close to Earth causing it to warm up. This is known as the greenhouse effect and is causing lots of problems such as rising sea levels, more extreme weather events, habitat losses and increased risk to human health.

10	Which of these vegetables is in season this month?	Carrots, brussels sprouts, leeks, all of the above	All of the above	When fruits and vegetables are allowed to ripen naturally and are harvested at the right time they not only taste better but have more nutritional value and less impact on our environment too.
11	Which of the following is threatened by global warming?	Coral Reefs, whales, bumblebees, all of the above	all of the above	Global warming has changed the chemistry of our oceans, causing it to be more acidic which negatively impacts our sea life. Climate change, loss of biodiversity & habitats and pesticide use are threatening our bees. Did you know one-third of Ireland's wild bee species are now under threat of extinction!
12	Which of these gases is not a greenhouse gas?	Carbon dioxide, oxygen, methane	oxygen	The main greenhouse gases are Carbon Dioxide, Methane, Nitrous Oxide, and Fluorinated Carbons e.g. CFCs. The impact of each gas is determined by three factors: 1)Its ability to trap heat (known as the Global Warming Potential) 2) Its atmospheric lifetime (how long it stays in the atmosphere) and 3) The amount released into the atmosphere (greenhouse gas concentrations). Number 3 is the only one we can control!
13	Most tea bags contain plastic, True/ False.	true/false	TRUE	A single plastic tea bag can shed billions microplastic particles.

14	Which of these scenarios is a direct result of climate change	brexit, more rainfall, traffic jams, all of the above	more rainfall	We get more rainfall as a result of climate change but the intensity of rainfall is also increasing and creating events such as 'rain bombs'. This leads to flash flooding, threatens human health and also causes severe damage to our buildings and infrastructure.
15	Paper can be made from what material?	Panda poo, hemp, wood, all of the above	all of the above	The panda's bamboo diet means their excrement is rich in fibre and can be made into tissues, paper towels and toilet paper!
16	Which of these can be composted and used as a fertiliser for your garden?	Egg Shells, Plastic wrappers, Tin foil, All of the Above	egg shells	You can easily compost most plant based food. Egg shells add calcium to your compost which is important to help plants build cell walls.
17	According to the UN, there is 10 times more gold per tonne found in ewaste, compared to gold ore. True or False	true/false	False. There is 100 times more!	E-waste is any waste product with a plug or battery. The world produces as much as 50 million tonnes of electronic and electrical waste (e-waste) a year, weighing more than all of the commercial airliners ever made. In Ireland, all ewaste must be recycled under European law.
18	From which country does Michael Quirke source its wood?		Ireland	Wood produced from sustainably managed forests is a renewable and environmentally friendly resource.
19	As a result of climate change, sea levels are rising at a steady rate. True or false.	FALSE	Sea levels are rising twice as fast as during the 20th century.	Sea level rose by 15cm during the 20th century but is now rising twice as fast. A new report by the IPCC estimates that global mean sea levels will rise between 0.43 m and 0.84 m by 2100.

20	How many people will be on the planet by 2050?	9.7 billion, 7 billion, 1 billion	9.7 billion	According to the UN, the world's population is expected to increase by 2 billion people in the next 30 years! Most of this growth will be in Africa and Asia. The Climate Justice movement and the UN's Sustainable Development Goals are trying to ensure we all work together protect those most vulnerable to the risks of climate change.
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