SDG Learning Organiser – Year 3 Autumn 2 – "How much impact can one invention have?"

Prior Learning (What we already know):

Why Buckden's infrastructure has changed over time.

The different industries within the local area and how these have changed over time.

How to use different sources which show change over time.

Understand how places are linked.

Explore the connection between people and places.

How to identify places and human and physical features within the local area on a map.

How to explore places and investigate distances.

New Learning:

How to develop and upgrade sustainable, resilient and inclusive infrastructures.

To assess the impact of improvements in transport / railways across the UK.

Name some important individuals, famous locomotives and early railway lines – Richard Trevithick / Isambard Kingdom Brunel.

Describe the different locomotive technologies that have developed over time.

Have a chronological understanding of how locomotives and the railway network changed over time and a comprehensive understanding of the contribution by significant individuals.

Confidently debate the positive and negative effects of the railways on different aspects of society.
Consider the effects of human activity on the local and wider area.
To explore how land use has changed over time.
To explain how human factors have influenced the geography of some cities.
To describe how transport in London and beyond has evolved over time.
To explore the factors that influence population distribution.

New Global Development Skills:

To identify cities and counties on a map
To place the time studied on a timeline
To use dates and terms related to the study unit and passing of time
To sequence several events
To identify reasons for and results of people's actions
To use a range of sources to find out about a period
To observe small details – artefacts (or photos of artefacts), pictures
To select and record information relevant to the study
To begin to use the library and internet for research
To make comparisons with our lives today

Key Questions:

Can you summarise the main events in the expansion of the railways?

How did the expansion change how and where people lived and worked?

Has this had an impact on our lives today?

Why were some people opposed to the expansion?

How are different cities linked?

In your own words, how has rail changed over time?

Explain positive and negative impacts has rail travel had?

What ideas can you add so that transport infrastructure can be improved?

Why do people move to new areas to live?

Think it, Believe it, Live it

Vocabulary:

Expansion, railway, locomotive, suburb, transport,industry/industrial/industrialisation, county, city, town, village, hamlet, physical and human characteristics, settlement, transport, evolved, trade links, public services, infrastructure, innovation, economy, manufacture, research and development.

Key Facts:

Global manufacturing production plummeted as a result of Covid 19, falling 6.8% in 2020.

Manufacture of medium and high tech products fuelled economic recovery in late 2020.

Enhancing rural road connectivity helps reduce poverty.

Almost 300 million out of 520 million rural dwellers lack good access to roads in 25 countries.

2020 was catastrophic for air travel demand.

Air passengers dropped from 4.5 billion in 2019 to 1.8 billion in 2020, a 60% decline.

Increased investment in research and development is essential to finding solutions for crises such as Covid-19.

In 2018, 2.2 trillion dollars was invested globally in R&D.

In 2018, there were 1,235 researchers per million inhabitants.

Key Resources:

https://sdgs.un.org/goals/goal9

https://unstats.un.org/sdgs/report/2021/

Can I do this?

I can place key events onto a chronological timeline.

I can use dates when discussing key events.

I can explain positive and negative consequences of railways.

I can explain how these changes in the past affect our lives today.

I can locate some counties and Cities using a map.

I can understand how rail travel linked cities.

I can understand that transport has changed through time, with specific focus upon London.

I can understand how people's movement (relocating) changes places (Cities).

I can explain why people decide to move to different areas.