

(The Earth's early atmosphere and its evolution)

Q1.a)(2018)

changes

- carbon dioxide has decreased
- oxygen has increased

processes

- volcanic activity released water vapour
- the water vapour condensed to form oceans
- carbon dioxide dissolved in oceans
- carbonates produce sediments
- carbon locked up in sedimentary rocks

- algae and plants evolved / appeared
- algae / plants absorbed carbon dioxide
- by photosynthesis
- which also released oxygen

- carbon locked up in fossil fuels

Q1.b)(2018)

any **one** from:

- occurred 4.6 billion years ago
- limited or no evidence

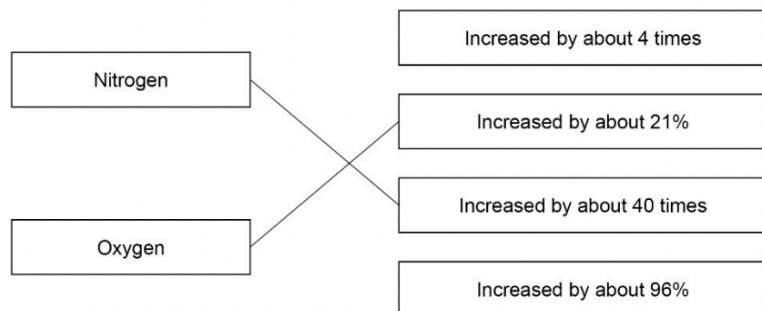
Q2.(2021)

4.6 billion years ago

Q3.a)(2021)

0.92 (%)

Q3.b)(2021)



Q3.c)(2021)

carbon dioxide dissolving in sea water

formation of sedimentary rocks

Q4.(2021)

evidence / proof

Q5.a)(2022)

1500 (millions of years ago)

Q5.b)(2022)

2500 (millions of years ago)

Q5.c)(2022)

plankton

Q5.d)(2022)

(there is) limited evidence

Q6.(2023)

Mars

Q7.(2023)

(y-axis labelled) 5, 10, 15, (20)

oxygen bar drawn to 16%

Q8.a)(2024)

percentage of nitrogen
increases

until 2.3 billion years

then remains constant

Q8.b)(2024)

the percentage of carbon
dioxide decreased