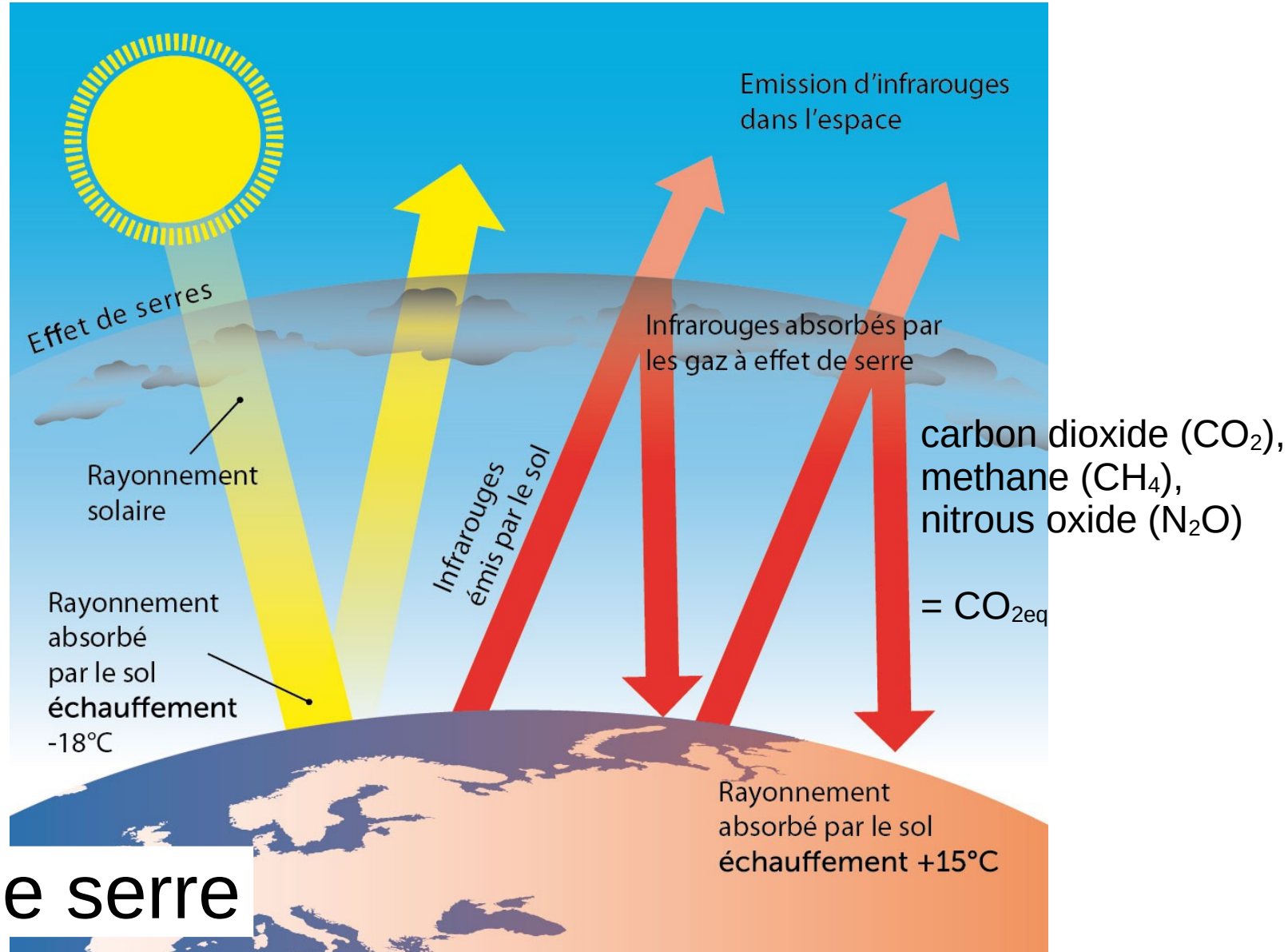


Part 1: Introductory MCQ

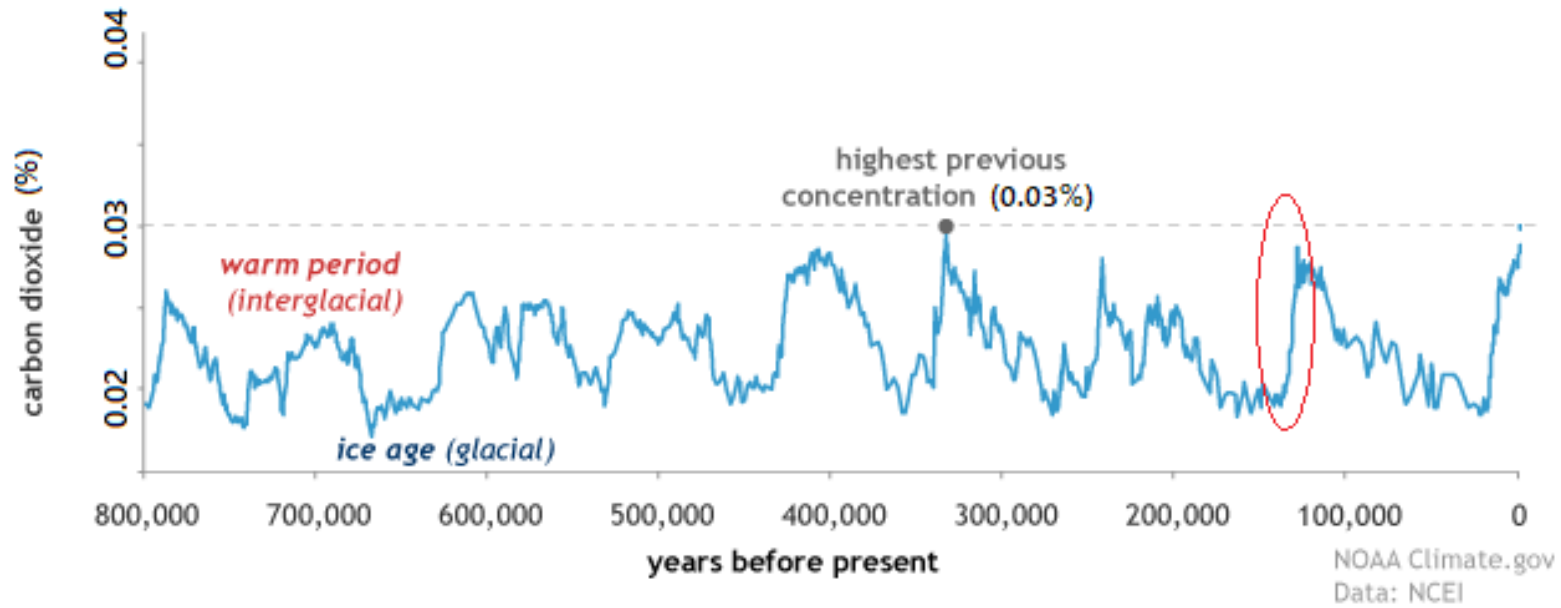
Climate change and the biodiversity crisis presented by science

A- How does the amount of CO₂ change?



L'effet de serre

CO₂ during ice ages and warm periods for the past 800,000 years

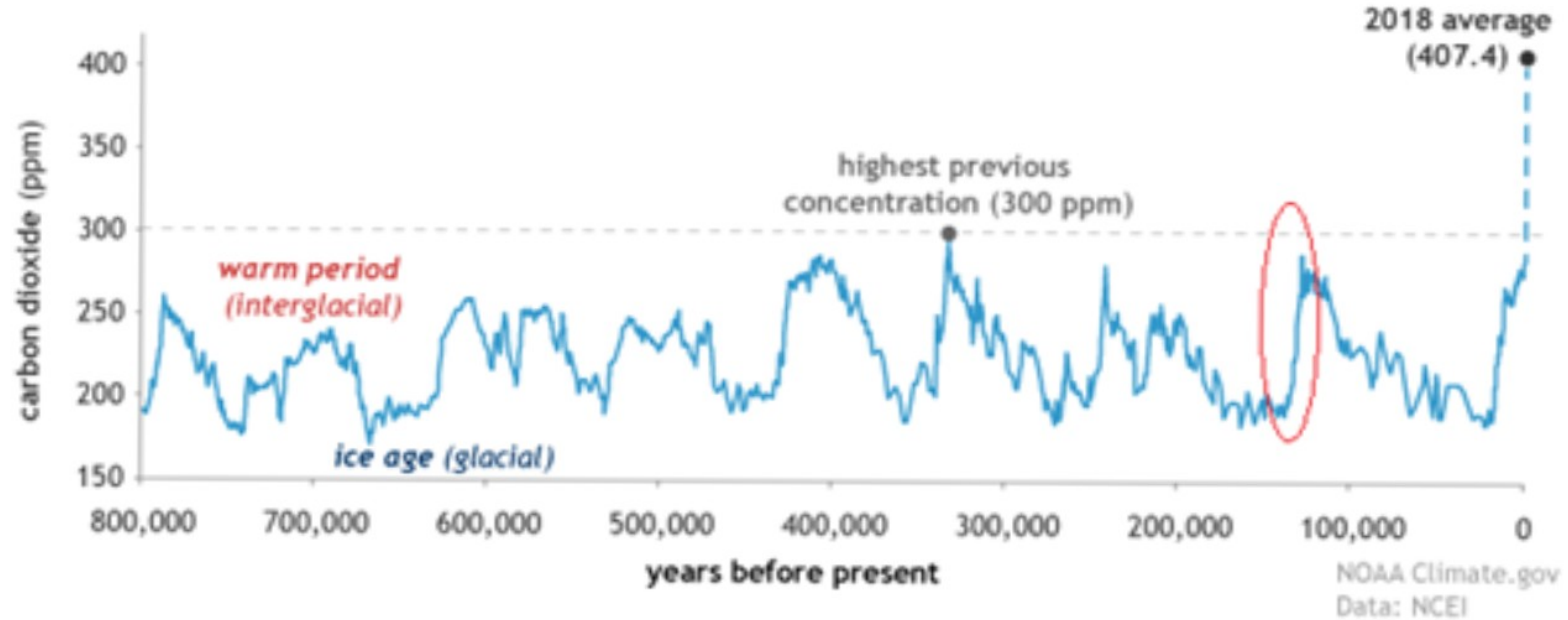


1- Over the last 800,000 years, the amount of CO₂ has varied between 0.02% (200 ppm) during glacial periods (such as when the Alpine glaciers reached Lyon) and 0.03% (300 ppm) during warm periods, such as the one we are currently experiencing.

What is the amount of CO₂ in the atmosphere in 2023?...

- a- 0,032 b- 0,042 c- 0,052 d- 0,062 ?

CO₂ during ice ages and warm periods for the past 800,000 years



2- During the last warming, 120,000 years ago, the increase of +80 ppm (+0.008%, circled in red above) was achieved in 6,000 years (+1ppm every 75 years). Today, the amount of CO₂ in the atmosphere increases by +1ppm every...

a- 100 years

b- 10 years

c- 1 year

d- 4 months ?

3- Nature absorbs half of our emissions (20% from the oceans and 30% from forests, peat bogs, etc.).

The problem is that these carbon "sinks" are becoming less and less effective, for at least 5 reasons. Can you explain some of them?

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4- Other phenomena (at least 2) are also causing warming to accelerate, but they do not affect these oceanic or terrestrial carbon sinks. Do you know any of them?

-

-

5- Over the last 10 years, by how much has absorption from these oceanic and terrestrial sinks already slowed?

a- 2 %

b- 7 %

c- 12 %

d- 17 %

B- How is the temperature changing?

6- How much has the planet's average temperature already risen since the start of the industrial revolution (1850-1900)?

a- + 0,5°C

b- + 1,2°C

c- + 1,5°C

d- + 2,5°C

7- Why do scientists strongly recommend not exceeding +1.5°C?

8- How much will the average global temperature rise over the next 10 years?

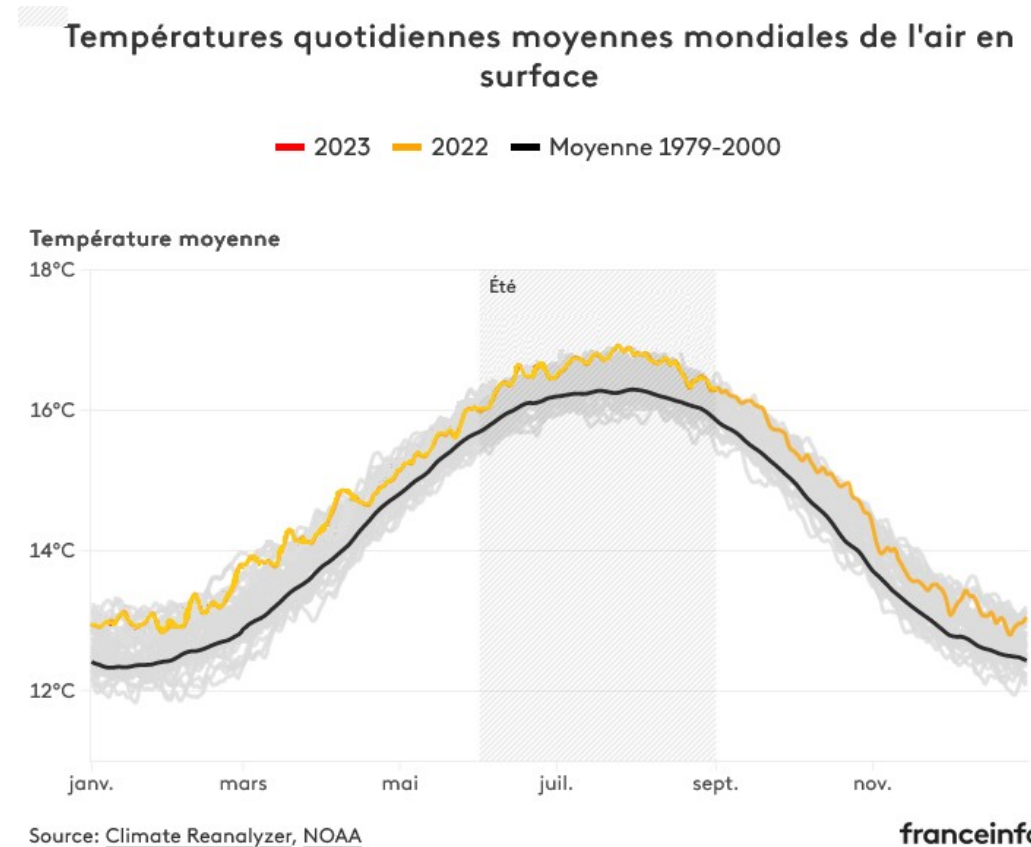
a- $+0,1^{\circ}\text{C}$

b- $+0,25^{\circ}\text{C}$

c- $+0,4^{\circ}\text{C}$

d- $+0,5^{\circ}\text{C}$

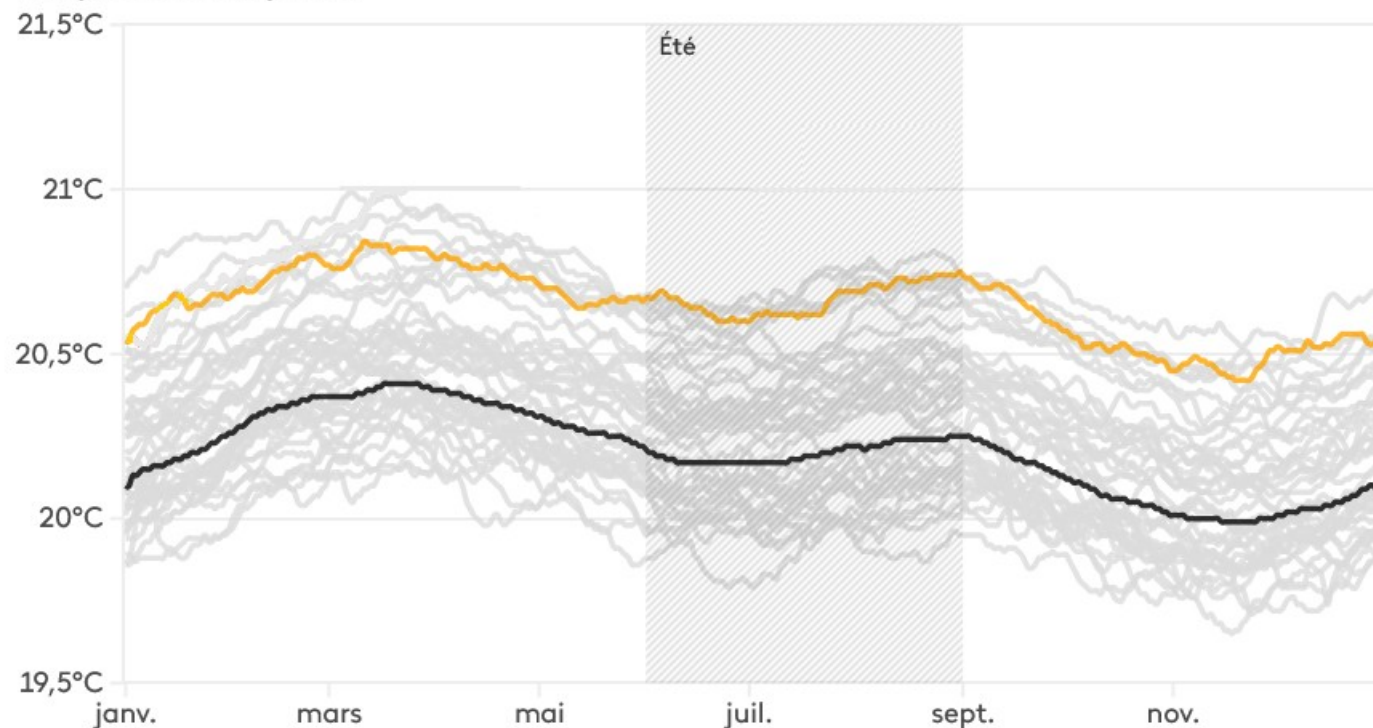
9- Directly on the graph above, draw the line representing the Earth's temperature in 2023 + 24.
Do the same for the following lines (sea temperature and sea ice surface).



Températures moyennes quotidiennes de surface de la mer

— 2023 — 2022 — Moyenne 1982-2011

Température moyenne



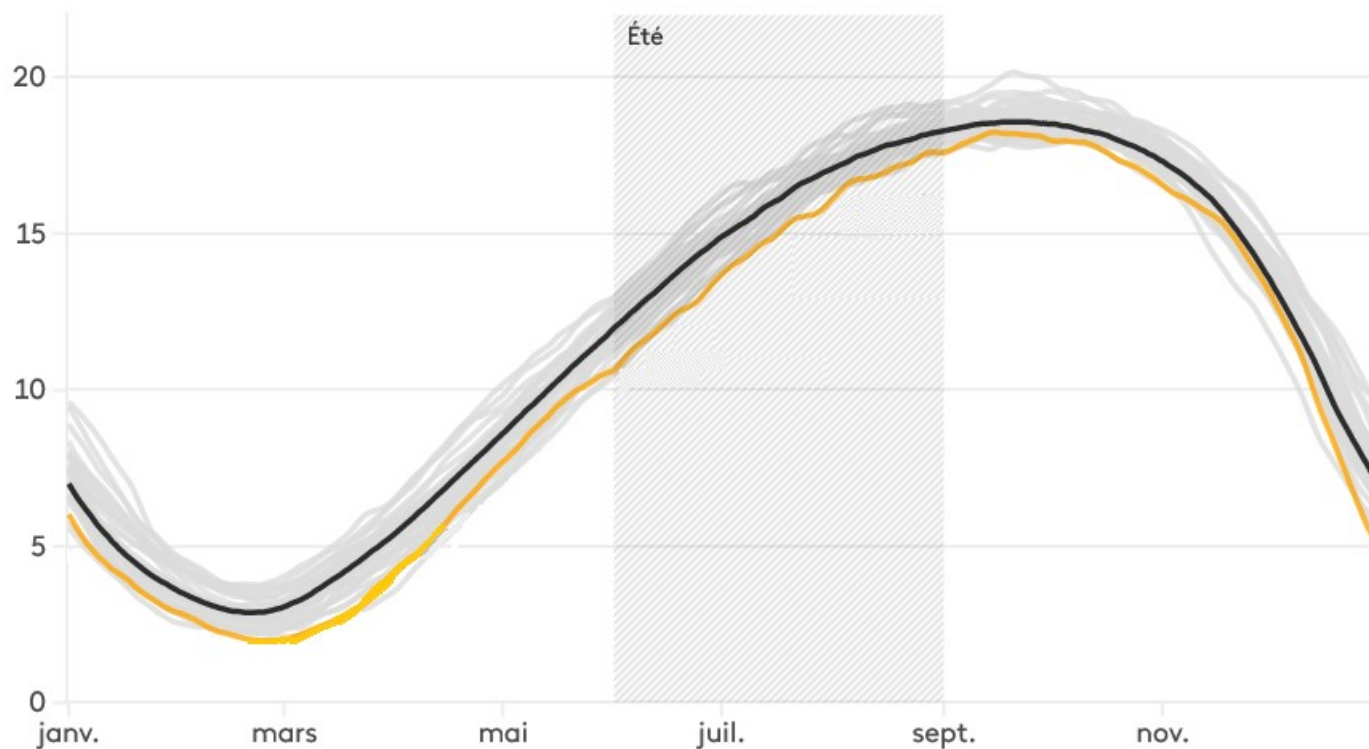
Source: [Climate Reanalyzer](#), [NOAA](#)

franceinfo:

Evolution de la surface de la banquise dans l'océan Antarctique

■ 2023 ■ 2022 — Moyenne 1981-2010

Surface (en million de km²)



Source: [Climate Reanalyzer](#), [NSIDC Sea Ice Index V3](#)

franceinfo

C- How is biodiversity changing?

10- What about biodiversity? It is estimated that there are around 8 million different species on Earth (excluding bacteria/viruses). How many species disappear each year (researchers estimate)? Around...

a- ...400 b- ...4000 c- 40 000 d- 400 000 ?

11a- How much has the insect biomass decreased in Germany over the last 30 years?

a- 15 % b- 25 % c- 55 % d- 75 %

11a- How much has the insect biomass decreased in Germany over the last 30 years?

a- 15 % b- 25 % c- 55 % **d- 75 %**

11b- What about the number of birds in Europe in 40 years?

a- 15 % b- 25 % c- 55 % d- 75 %

12- what is the main culprit?

a- cats

b- climate

c- intensive agriculture

Part 2: Introductory MCQ

Our ideal society low C

13- How many tonnes of CO₂eq/year/person does the average European (or French or German) emit?

a- 1t

b- 2t

c- 10t

d- 20t

14- Carbon sinks absorb/store CO₂, enabling us to emit it without it accumulating in the atmosphere (and ultimately to be CO₂ neutral). What is the maximum quantity of tonnes of CO₂eq that we should not exceed per person per year in order to remain neutral?

a- 1t

b- 2t

c- 10t

d- 20t

15a- How much do the richest 1% of Europeans (> 80 k€ / an / person or 6 700 €/month/person) emit on average (in t CO₂eq/year)?

15b- What about the richest 10% (between 41 et 80 k€ / an / person or 3400 - 6700 €/month/person)?

a- 13t b- 23t c- 43t d- 63t

16- To reduce our emissions, we need to know what emits CO₂. At country level (ATTENTION, in this case France in 2022), link the sectors directly on the map to their emissions in millions of t CO₂eq.

Energy	*	*	70
Agriculture, Forestry	*	*	75
Industry, Construction	*	*	160
Commercial, Residential	*	*	62
Transport	*	*	43

17- For an average European, which action reduces emissions the most (in t CO₂eq/year)?

Becoming vegetarian	*	*	2
Selling your car	*	*	1
No more flying	*	*	1
Insulating your home better	*	*	0,43

18- When we talk about housing, we insist on insulation, forgetting that construction, renovation and even heating are directly linked to the surface area we live in. In 1984, the average surface area in France was 30 m². What about today?

a- 25 m²

b- 30 m²

c- 35 m²

d- 40 m²

19- Switching from a petrol-powered car to an electric car reduces emissions (over the entire lifecycle) by...
Distinguish between France and Europe.

- a- 1/5 : - 20%
- b- 2/5 : - 40%
- c- 3/5 : - 60%
- d- 4/5 : - 80%

20- To divide them by 5 (so reduce them by $\frac{4}{5}$), what more would you need to do?

21- Reducing car journeys is not just up to us. How could society evolve to enable us to use the car less?...

-

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-

22- Example 2: clothing. How many kg of CO₂ is due to textiles for a French person each year?
What can be done to cut emissions by a factor of 5?

Part 3: Introductory MCQ to Action !

23- Based on the answers to MCQ 19 : (Develop public transport, reduce train fares and delays, develop cycling...)

What can WE do today to make these good wishes come true?

24- Based on the answers to MCQ 20: (Buy less, second-hand or salvage, repair or have repaired, give away or resell what you no longer use), what actions can you take today to make these good wishes come true?

24- Based on the answers to MCQ 20: (Buy less, second-hand or salvage, repair or have repaired, give away or resell what you no longer use), what actions can you take today to make these good wishes come true?

Note:

If you want to propose that the European Commission change a law, you can start a petition:

<https://www.europarl.europa.eu/petitions/en/home>

It's also possible with Greenpeace <https://www.greenvoice.fr/>

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Filtres:

Type d'action

- Empreinte personnelle
- Mail, pétitions
- Associations
- Entreprises
- Information
- Service Publique
- Religion
- Politique

Focus

- Alimentation
- Transport
- Consommation
- Logement
- Service Publique
- Biodiversité
- Compensation
- Général

Autre

Translate the action site

Exemples d'actions pour le climat

Présentation

Tri: ⬇ ---

Proposer à quelques amis, déjà conscients et actifs, de participer à l'emballlement

Jusqu'ici, il fallait faire l'atelier pour arriver sur ce site et participer à l'emballlement d'actions qui pourrait ralentir l'emballlement climatique. L'atelier permettait d'avoir toutes les informations et la manière d'agir pour être efficace. ...

0 🔥 0 Suivis 0 💬

Agir pour empêcher la construction de l'autoroute A69

Une action similaire qui expliquait les raisons avait été déjà lancée ici : https://www.defiplanete.org/blog/at_action/55/ MAIS IL Y A DU NOUVEAU : Une commission d'enquête parlementaire a débuté, mardi 27 février, « sur le montage juridique...

0 🔥 1 Suivis 2 💬

Suivre et proposer à mes amis/ma paroisse le Carême du CCFD-Terre Solidaire

Le carême est un excellent moment pour prêter plus attention aux autres et à l'environnement et par eux à Dieu. Ce cahier de Carême du CCFD-Terre Solidaire (qui s'engage contre les inégalités, la faim et pour le développement avec ses 525 acteurs...

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