

Microplastics An invisible but invincible threat?



- •On Tuesday, 28th April 2023, the students of A', B' and C' class of the 5th Model Gymnasium of Chalkida went on a cleaning and record keeping expedition of the amount of microplastics to three nearby beaches of our town under the supervision and initiative of the teacher of Biology Ms. Sofia Liaboti and in compliance with the protocol of the Programme of the European Union, PERSEUS.
- •Precedent to the expedition part of the students of the Biology Club of the 5th Model Gymnasium of Chalkida had been educated on the topic of pollution, plastics and microplastics within the course of their visit to ΕΛΚΕΘΕ.
- •Additionally, the teachers of the Foreign Languages Laboratories: Avgeri Maria, Madarou Vasiliki, Stamouli Sofia, Henkenherm Anke, Karayorga Ypapanti, gave elaborate presentations to the students of all classes on Microplastics and their impact both on the environment and the human body.
- •The Information Technology teachers, Ms. Keskini and Ms. Lalakou, also, participated in the action within the framework of the Skills Laboratoties (B' Class- Volunteerism).

C' Class – Kourenti Coast







B' Class – Sykies Coast







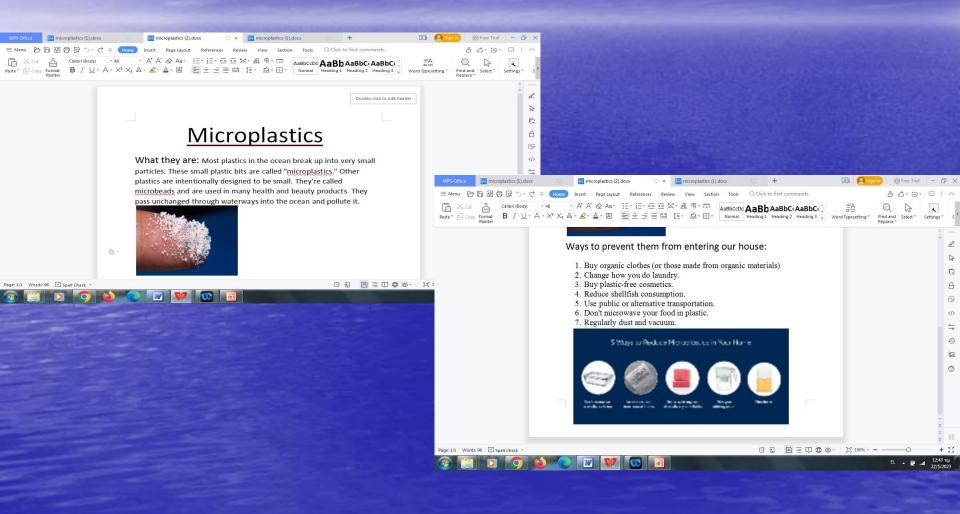
Class A' – Papathanasiou Coast



English Laboratories - Microplastics

In the Laboratories of the English language and under the instruction of their English Language teachers, students watched videos on microplastics, answered questionnaires and produced informative leaflets in the English language to let the public know about the extent of the problem. The main focus of the discussion which followed was on what we eat and how we can make a change by being more careful as to the materials our clothes are made of.

English Laboratories - Microplastics



Microplastics



Microplastics- How they are produced...

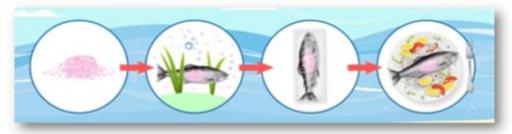


... and how they end up in the human body.

CONNECT

care

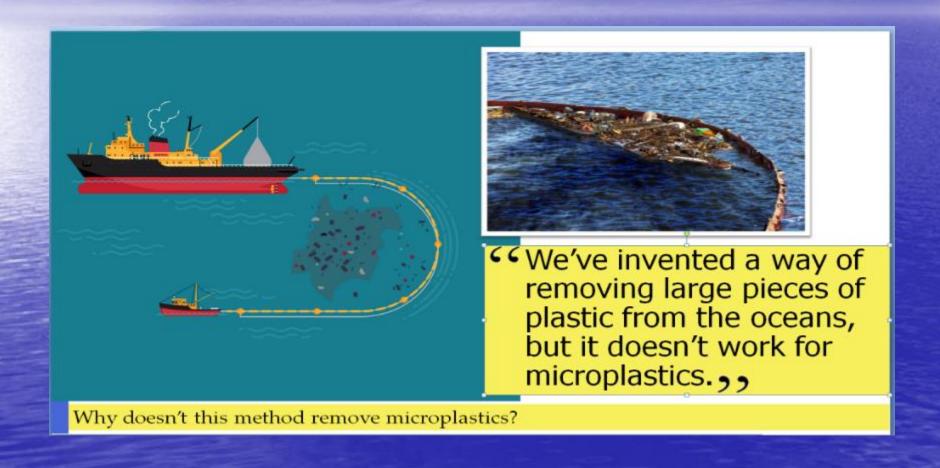
Microplastics get eaten by fish...



...and then by us.

Why might your body contain microplastics?

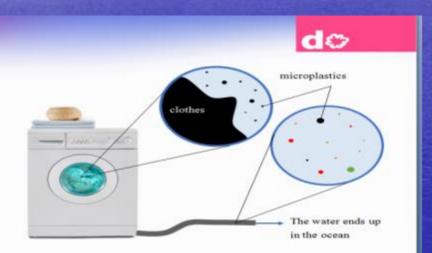
Ways to remove microplastics from oceans and the sea



What happens every time you do the laundry!

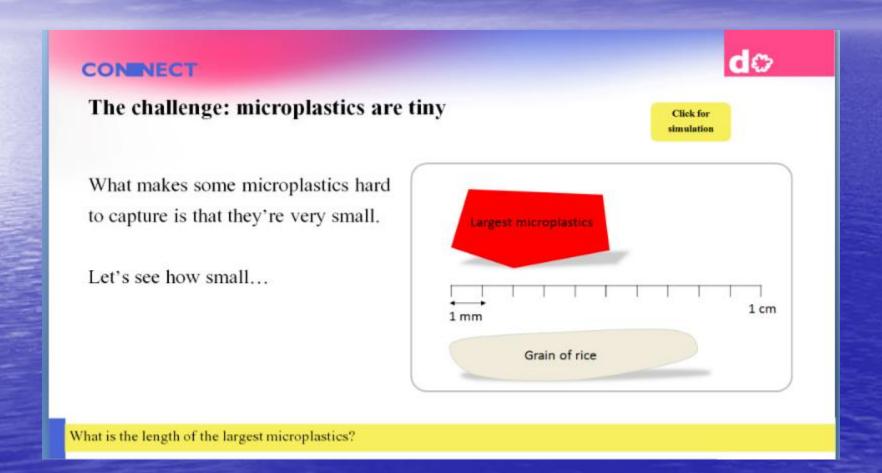
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Every time you wash clothes in your machine, they shed hundreds of thousands of microplastics.

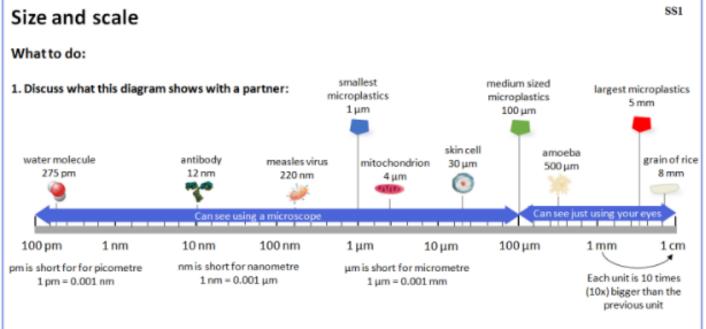


Let's invent a way to stop microplastics escaping from washing machines.

Length of the largest microplastics

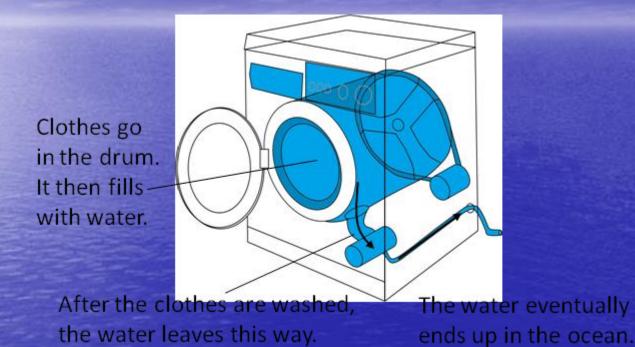


Comparisons



2. Answer these questions on your own:

- 1. Put these objects in order of size, smallest first: bacteria, amoeba, antibody, skin cell.
- 2. If you lined up bacteria end-to-end, how many would fit inside a skin cell?
- 3. How big is an amoeba in mm?
- True or false: The smallest microplastics are 0.001 mm.
- 5. Noah says 'you can see if there are microplastics in water with your eyes.' Do you agree? Give a reason for your answer.



ends up in the ocean.

Microplastics in our plate





Καμάρες Ενα ισχυρό σύμβολο – τοπόσημο.

Το ρωμαϊκό υδραγωγείο, γνωστό ως Καμάρες, βρίσκεται στη βόρεια έξοδο της Χαλκίδας στην περιφερειακή οδό, λίγες εκατοντάδες μέτρα από το 5ο Πρότυπο Γυμνάσιο.

Αποτελούσε έργο μεταφοράς νερού για την ύδρευση της πόλης, το οποίο κατασκεύασαν οι Ρωμαίοι και συνέχισαν οι Ενετοί.

