

Ocean plastics assessment

Use the options table and any information given here to help you complete the tasks.

Six ways of reducing the plastic pollution problem include:

Redesign	Refuse	Reduce	Repair	Reuse	Recycle
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1. What does it mean to recycle plastic waste?

[1]

2. 'Ecover launches bottle made from 50% ocean plastic' Which of the six Rs mentioned above is this an example of?

[1]

3. You decide to bring a refillable water bottle to school. Which of the six Rs is this describing?

[1]

4. Kenya has a ban on plastic bags. Suggest two ways the ban could be enforced?

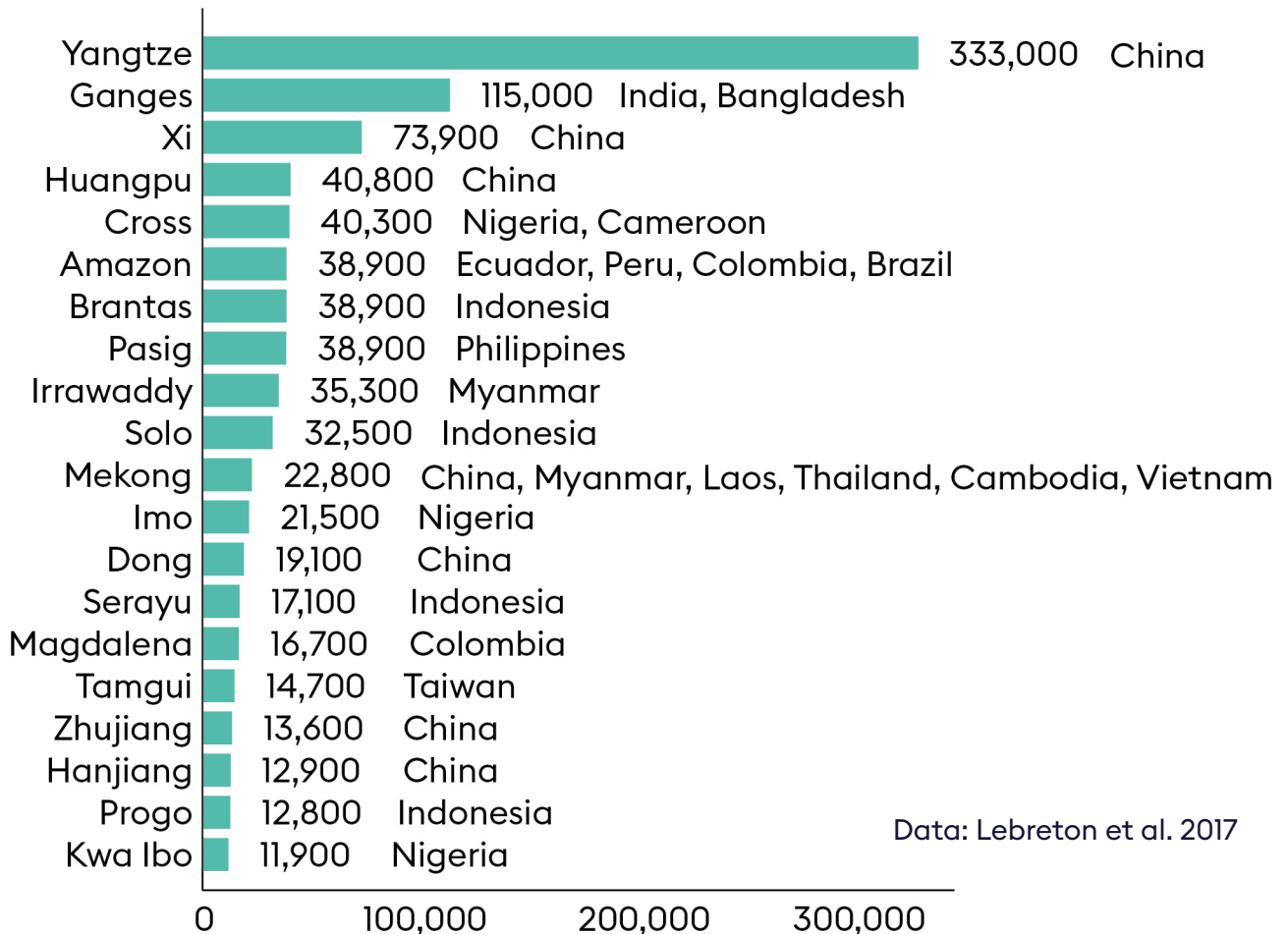
[2]

STUDENT SHEET 7a

Study the graph below and use it to answer the following questions.

Top 20 rivers for plastic input to the ocean (2015)

Plastic input to the ocean from the top 20 polluting rivers across the world. Shown is the river, its location and estimated annual input of plastic into the oceans in tonnes.



5. Describe the amount of plastic that polluted the ocean from rivers in China.

[2]

6. Identify any patterns in the data.

[1]

7. What factors contribute to the levels of plastic pollution in these rivers?

[2]

STUDENT SHEET 7a

Study the graph below and use it to answer the following questions.

Fate of all plastic produced between 1950-2015 in millions of tonnes (Mt)

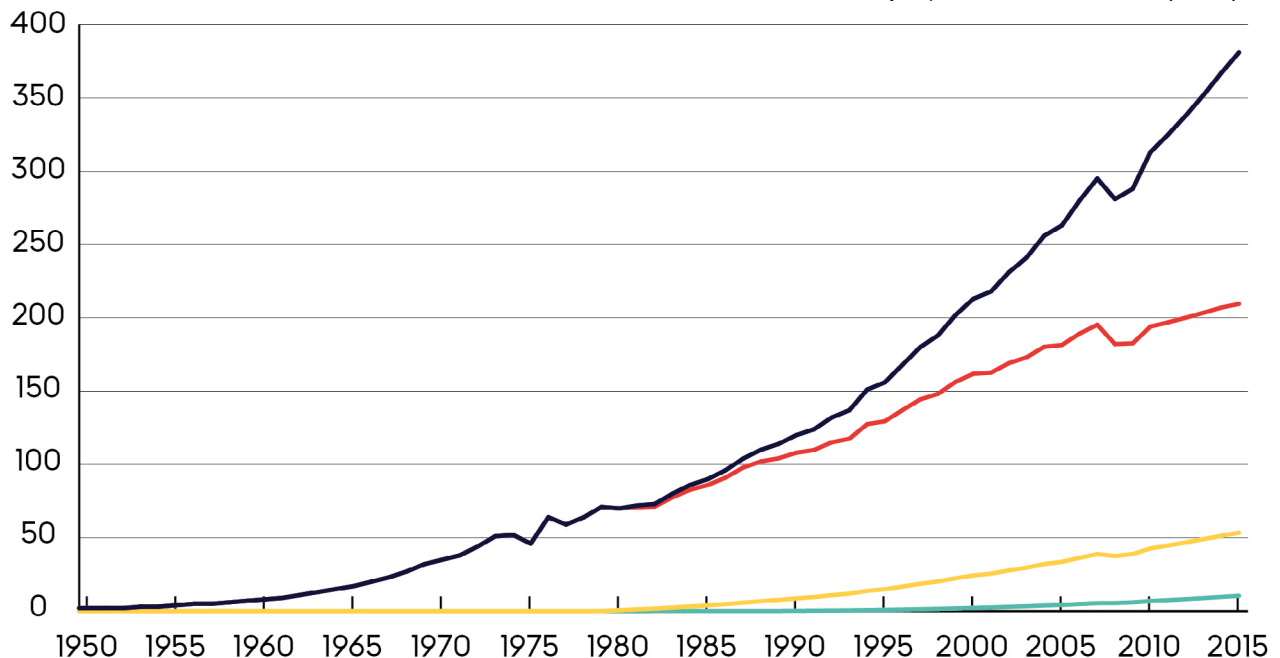
produced

discarded

incinerated

recycled

Data: Geyer, Jambeck & Law (2017)



8. How much plastic was discarded in 2015?

[1]

9. What percentage of plastic produced in 2000 was discarded?

[1]

10. Describe what has happened to the amount of plastic recycled between 1950 and 2015.

[1]

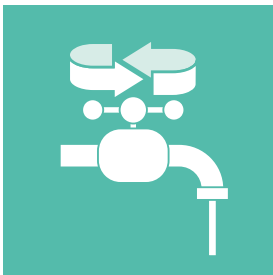
11. How much has plastic production increased since 1980?

[1]

12. Plastic pollution has been called 'The Long Emergency'. Suggest why it has been given this name.

[2]

Decision-making exercise on the options to deal with plastic pollution



Turn off the taps



Bail out the bath



Do nothing

Choose the option that you think is the most effective to deal with Plastic pollution. Use examples and details from your ‘Silent Debate’ table and any extra detail you have found out.

My Chosen Plan:

Plan	Your writing here
Explain with an example how this option works.	<div>[3]</div>
Give two reasons for choosing this option, and explain the benefits it brings.	<div>[4]</div>

STUDENT SHEET 7a

Plan	Your writing here
Suggest two problems or disadvantages of your choice.	[2]
Think of the other two options and give two disadvantages they have.	[2]
Give an example for at least one of these two options.	[1]
Suggest an advantage of each of these options. Say why you rejected each of the other options.	[4]