

That's Rubbish

That's rubbish is an interactive, quiz style game focused on teaching primary school children aged 5-9 years old the importance of disposing of waste. The game also attempts to give them a scale of how much waste they, and society produces, and teach them how to properly dispose of their waste. This game could be implemented as a standalone mobile application, or an inlay into a larger website.

Using the National Waste Database, and statistics from the 2020 National Waste report, quiz style questions will be formed surrounding the topics of the amount and kinds of waste produced. Examples of this could include 'What is the most disposed household item?' Considerations could also be made to target the answers to the target audience. To do such things, answers in tonnes could be converted to measurements of 'X number of elephants', or a random, more relatable item from a list rather than a tonne. The animal API (as referenced) returns scientific facts of animals, including estimated weights, and could be accessed and used to convert tonnes to other, more interesting reference measurement weights.

In addition to this, a second 'game-mode' is added, using the 'management' column of the database, asking students to click and drag certain items to the correct disposal bin.

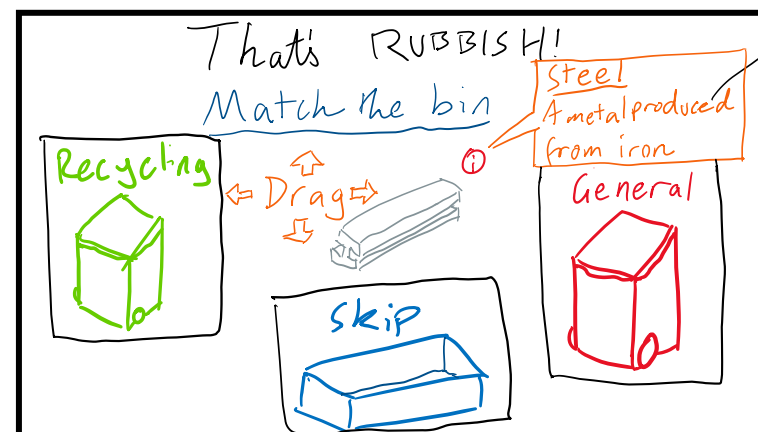
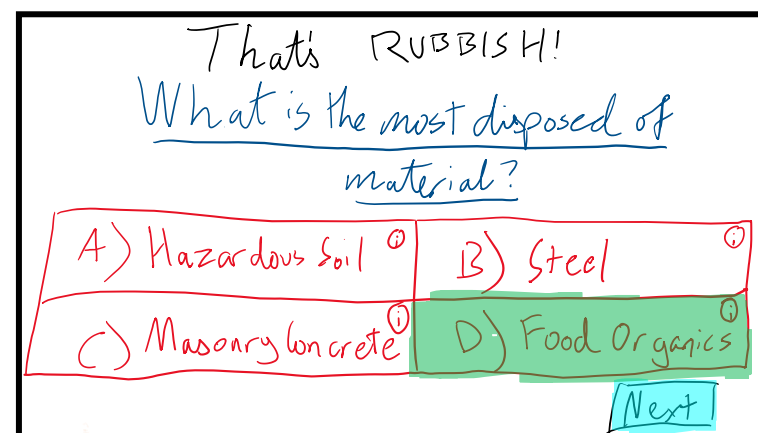
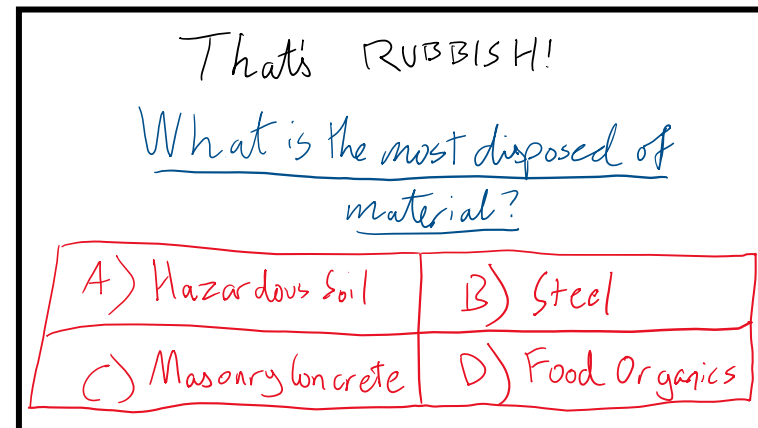
Further, to match the target audience, the data in the National Waste Database should be filtered out, either post API call, or pre, to exclude products such as 'biosolids' or 'asbestos' which would be out of reach of students' vocabulary. Alternatively, a dictionary API such as the one linked could be used to provide tooltips, explaining the definition of such waste products (or more child-friendly definitions if possible).

Datasets used are:

National Waste Report and Database:
<https://www.dcceew.gov.au/environment/protection/waste/national-waste-reports/2020>

Dictionary API:
<https://dictionaryapi.dev/>

Animal API:
<https://api-ninjas.com/api/animals>



`Api[0]["meanings"]["definitions"][0]`