

# CHEMISTRY FOR GOOD CHALLENGE- POOR WASTE DISPOSAL

## GUIDANCE NOTES DOCUMENT

### 1. Key outcomes include:

- Learning about different waste types and their negative effects on the planet and its future upon disposal
- Identifying reasons for the waste type being widely used
- Investigating and creating potential solutions to the waste disposal, suggesting alternatives or ways of improving its disposal method
- Understanding how these solutions will better the environment and have a positive outcome on the climate change crisis
- Learning about the UN Sustainable Development Goals, and tie solutions in with the goals in an effort to make a global difference

### 2. Useful links or resources:

#### a) Read:

- **Waste and Recycling Statistics in the UK:**  
<https://www.gov.uk/government/collections/waste-and-recycling-statistics>
- **United Nations Environment Programme- Solid Waste Management:**  
<https://www.unep.org/explore-topics/resource-efficiency/what-we-do/cities/solid-waste-management#:~:text=Poor%20waste%20management%20%2D%20ranging%20from,cause%20infection%20and%20transmit%20diseases.>
- **Factors that Lead to Poor Waste Management and how to Combat them:**  
<https://blog.greenbankwastesolutions.com/factors-that-leads-to-poor-waste-management-and-how-to-combat-them>
- **Alternative Ideas for Waste Management:**  
<https://www.ipoint-systems.com/blog/3-alternative-ideas-for-waste-management-in-developing-countries/>
- **Improving Waste Management and Reducing Greenhouse Gas Emissions:**  
[https://www.c40knowledgehub.org/s/article/Six-city-actions-to-improve-waste-management-and-reduce-greenhouse-gas-emissions?language=en\\_US](https://www.c40knowledgehub.org/s/article/Six-city-actions-to-improve-waste-management-and-reduce-greenhouse-gas-emissions?language=en_US)
- **Futuristic Waste Management Technologies:**  
<https://wasteadvantagemag.com/5-futuristic-waste-management-technologies/>

b) Listen:

- **Podcast- Plastic Pollution on the Environment**  
<https://open.spotify.com/show/4KEwr1M5mtklqcYDgYUNHi?si=df0ecd529d394ce6>
- **Podcast- Waste Disposal**  
<https://open.spotify.com/episode/1RJKnZqoT8Gxd7S4vpZM9y?si=qgzHIOqTRBi1T4TTicLfqQ>
- **Podcast- The 'Zero Landfill' Promise**  
<https://open.spotify.com/episode/3Ya78Fnhpfigxx4MaTEeFI?si=SHCbSPk7R6myXBFaUphr0g>

c) Watch:

- **Proper Waste Disposal according to Material Properties:**  
<https://youtu.be/Lfj8SKFITpl>
- **How Singapore fixed its Problem with Trash:**  
<https://youtu.be/r-q5V6LDxEY>
- **Best Practices and Advocacy in Waste Management:**  
<https://youtu.be/-nNeNBkWDhY>
- **The Problem with e-Waste:**  
<https://youtu.be/FmJFVmtWf-l>

d) Look:

- **Images and Statistics- Landfills:**  
[https://www.google.com/search?q=landfills&tbm=isch&hl=en&chips=q:landfills,g\\_1:methane:MI8sZipdx-4%3D&sa=X&ved=2ahUKEwism9aQ2MT4AhUHRhoKHb0bDV5Q4lYoA3oECAEQJg&biw=1519&bih=754#imgrc=vxHqJ7zR5jYO0M](https://www.google.com/search?q=landfills&tbm=isch&hl=en&chips=q:landfills,g_1:methane:MI8sZipdx-4%3D&sa=X&ved=2ahUKEwism9aQ2MT4AhUHRhoKHb0bDV5Q4lYoA3oECAEQJg&biw=1519&bih=754#imgrc=vxHqJ7zR5jYO0M)
- **Flowchart- Ideal Waste Management:**  
<https://ishaneesharmahome.files.wordpress.com/2019/05/solid-waste-management-1000x675.jpg>
- **Bar Chart- Countries that produce the most e-Waste:**  
<http://cdn.statcdn.com/Infographic/images/normal/17175.jpeg>