

Activity Overview Guidesheet

Industry Visit to Biomass Plant, Alves.

Objectives

- I understand something new about the digestion process.
- I understand the Biomass Plant works like a digestive system.
- I can demonstrate an informed view about the need for a biomass plant and the impact it has on the business model of a local employer and for others in the local area.
- I understand that there are a broad range of opportunities locally and different levels of training and work and routes into sectors.

Suitable for

P5-7 pupils

Activities

- Welcome and purpose of Visit – Introduction to business – descriptor of visit.
- Ground rules/Safety briefing – issuing of PPE; identifying key behaviours for being on site; consequences of non-compliance.
- Tour of premises – How the biomass Plant works to digest rye/grass and produce methane (see [Risk Assessment](#)).
- Q&A session with plant manager
- Conclusion and Thanks

Pre/Post Activity

Pre Activity –

- Compost columns experiment – bacterial/fungal digestion of food and production of gasses
- Yeast/Balloon Experiment – production of gasses from digestion of food
- Digestive tract experiment - <https://www.stem.org.uk/elibrary/resource/35396>

Post Activity -

- Access My WOW using links below.
- Get pupils to look into the top related skills for the job and the role. Ask pupils to reflect on their skills – which ones do they have which would help them in this role?
- Look at the job profiles of some of our Local people working in this sector – what pathways did they take into their current role?

Experiences and Outcomes

SCN 2-13a – I have contributed to investigations into the role of microorganisms in producing and breaking down materials
SCN 2-12b I have explored the structure and function of sensory organs to develop my understanding of body actions in response to outside conditions
SCN 3-04b By investigating renewable energy sources and taking part in practical activities to harness them, I can discuss their benefits and potential problems.
TCH 2-12a I can extend my knowledge and understanding of engineering disciplines to create solutions

Career Management Skills

Horizons | Strengths

CES – I can statements

I can discuss the relevance of skills to the wider world and make connections between skills and the world of work.
Strengths – 1 / 3

I can learn about the world of work from visits, projects and my experiences. Horizons - 4

Skills Investment Plans

Land Based| Inequalities

Contacts

My World of Work Links

<https://www.myworldofwork.co.uk/search/sitewide/biomass>

<https://www.myworldofwork.co.uk/my-career-options/energy-engineer>