HINT SHEET

Some prompts/hints if some of the groups are stuck!

Group 1 - Food Waste + Renewable Energy
Hint: Think about what happens when microorganisms break down food without oxygen. Could the process produce something useful as a fuel?
Try searching: food waste anaerobic digestion | microorganisms food waste biogas | how is biogas made from food waste

Group 2 - Coffee Waste + Food Production
Hint: Used coffee grounds still contain organic material. Could they become a place for something edible to grow?
Try searching: mushrooms grown on coffee grounds | fungi coffee waste | used coffee grounds mushroom substrate

Group 3 - Carbon Dioxide + Animal Feed
Hint: Think about organisms that use carbon dioxide as they grow. Could any of them also produce something rich in protein?
Try searching: algae use carbon dioxide to grow | microalgae protein animal feed | algae carbon dioxide fish feed

Group 4 - Used Cooking Oil + Transport Fuel
Hint: Cooking oil is already an energy-rich liquid. Could it be processed into a fuel that can power vehicles?
Try searching: used cooking oil biodiesel | how is biodiesel made from cooking oil | waste oil renewable fuel

Group 5 - Crop Waste + Sustainable Packaging
Hint: Straw and plant stalks contain useful plant fibres and sugars. Could these become building blocks for a new material?
Try searching: crop waste biodegradable packaging | straw cellulose packaging | agricultural waste bioplastic