



## WORKSHOP D > TRASH OR TREASURE?

**OVERVIEW:** Many of Earth's resources are a 'treasure' whether they be natural or processed materials. Professor JellyBean takes the children on a fun investigation to discover how materials can interact with other forms of matter when they create the bubbling **SEA FOAM** chemical reaction. The children will also participate in a fun game called **MAGNETIC TREASURE**. Professor JellyBean uses these two science activities to weave a story of how Earth's resources are used, their impact on the environment and actions we can take in our everyday lives to ensure we value these 'treasure' resources.

**RATIONALE:** With the bubbling SEA FOAM activity, the children mix up materials to discover different densities and how they interact with each other. They learn how matter can change its observable properties. This eye-catching science activity provides an understanding of how pollution, such as oil does not mix within bodies of water. The chemical reaction created to make the SEA FOAM is a thrilling way to understand changes that can occur in nature when man-made (processed) materials are mixed within the environment. Magnetic Treasure demonstrates, by an invisible force, how we can identify some of earth's resources to improve our *treasure* sorting skills. With this knowledge, we can better understand that some natural and processed materials are essential for life, while others make our lives better. We all have a role to use resources more responsibly.

**ACTIONS:** The workshop includes dressing up, imagining, observing, sharing observations, using materials and equipment safely, using the senses, measuring, mixing materials, making predictions, creating a chemical change, describing changes, asking questions, understanding relationships and systems.

**CALL TO ACTION:** This workshop empowers children to take action to value Earth's resources and to set up an efficient waste sorting system within their own home. The workshop teaches the children to identify the useful '*treasures*' in their daily lives. Children will receive **THE EARTH CHAMPION'S GUIDE-BOOK for super awesome kids** to enhance their waste (treasure) sorting skills .

### Workshop D complements the following learning outcomes:

**Prep** Living things have basic needs, including food and water (ACSSU002), Objects are made of materials that have observable properties (ACSSU003), Science involves observing, asking questions about, and describing changes in, objects and events (ACSHE013), Participate in guided investigations and make observations using the senses (ACIS011), Share observations and ideas (ACIS012)

**Year 1** Living things live in different places where their needs are met (ACSSU211), Everyday materials can be physically changed in a variety of ways (ACSSU018), Science involves observing, asking questions about, and describing changes in, objects and events (ACSHE021), People use science in their daily lives, including when caring for their environment and living things (ACSHE022), Participate in guided investigations to explore and answer questions (ACIS025)

**Year 2** Different materials can be combined for a particular purpose (ACSSU031), Earth's resources are used in a variety of ways (ACSSU032), A push or a pull affects how an object moves or changes shape (ACSSU033), Science involves observing, asking questions about, and describing changes in, objects and events (ACSHE034), People use science in their daily lives, including when caring for their environment and living things (ACSHE035), Participate in guided investigations to explore and answer questions (ACIS038), Use a range of methods to sort information, including drawings and provided tables and through discussion, compare observations with predictions (ACIS040)

**Year 3** Science involves making predictions and describing patterns and relationships (ACSHE050), Science knowledge helps people to understand the effect of their actions (ACSHE051)

**Year 4** Living things depend on each other and the environment to survive (ACSSU073), Natural and processed materials have a range of physical properties that can influence their use (ACSSU074), Forces can be exerted by one object on another through direct contact or from a distance (ACSSU076), Science involves making predictions and describing patterns and relationships (ACSHE061), Science knowledge helps people to understand the effect of their actions (ACSHE062)



Sea Foam



Magnetic Treasure