

Activity instructions - ECOSYSTEM SERVICES TREASURE HUNT

Session 4 – IMPRINT+ Training course



Instructions

Before beginning treasure hunt, discuss with students the idea of Ecosystem services. Try to cover a lot of the topics the questions deal with, so students are comfortable with the questions.

Divide group into 4 teams. Give each team an element. They must search for their elemental cards in each bag.

Bags should be set out around forest or area before hunt begins.

Questions correspond to a crossword (bring copies with you printed off - one per team) with a highlighter high-light the letters to reveal a secret code that students must figure out to see where the treasure is located.

Each x word will reveal one word, jumbled, teams must come together and share their word to find as a single group the location of the chest.

i.e. Behind The Big Tree

If you wish to have further challenges in the treasure chest that is possible.

(see file on treasure chest challenges)



WATER

1. When Chemicals, plastics and waste end up in our water it becomes bad and unsafe to use. What is this called when something gets P _____
2. Can you name a green creature that lives half its life in a pond and couldn't survive without water?
3. What is the term for when water leaves the ground and is taken into the sky or air?
4. The Ocean contains saltwater, lakes and rivers contain _____
5. Humans have found a way to produce electricity from water. What is this electricity called?
6. Could people survive without water?
7. Plants need water, sunlight and soil to grow but what part of the plant soaks up the water from the ground?
8. (down) Can Nature naturally clean Water?
- 9 (across). Is water a renewable resource?
10. Water falls from the sky in three different forms can name them all And figure out which one fits here?
11. _____ need water to grow big and strong, provide shade to animals and fruit for us to eat.
12. Water is composed of two elements. Hydrogen and oxygen but what is the scientific symbol for water?
13. *Who does water belong to?*

WIND

1. The sky is an important part of a habitat for what kind of animals?
3. All life is linked closely with something large, made of wood that breathes out oxygen. What is it?
2. Without air we would die, but what is the name of the gas in the air that helps us live?
4. In a forest fierce wind can be useful knocking down old dead trees making room for new ones. What is the weather term for a really strong wind?
5. What does the wind blow across the sky to bring us fresh water?
6. Lichens are a fungus and plant combined that grow on trees. Certain types only grow in places where there is no pollution and the air is really _ _ _ _ _
7. There is a big word that is the name for all the different gases that make up the air that surrounds the planet. What is it?
8. In Outer space we can not breathe because there is no _ _ _ _ .
9. Air is made up of different gases. A liquid can turn to a gas. What liquid have you seen turn into air, coming out of your kettle?
10. When we drive cars and burn coal we release CO₂. This is not good for a healthy planet. What can you do to trap CO₂? _ _ _ _ Trees!
11. Could aeroplanes fly without air?
12. What time of year does the wind blow the leaves off the trees?
13. *Who does the air belong to?*

EARTH

1. Soil is a part of us and we will one day be a part of it. Is this sentence true?
2. From weathering and erosion Mountains and _____ break down over a long time to become part of the soil.
3. There are many different types of soil. True or false?
4. In what brown stuff does our food grow?
5. Plants and trees need vitamins and _____ from the soil.
6. Bugs that eat dead plants are called DETRITIVORES - can you name a wiggly detritivore that makes compost and lives in the ground?
7. Soil is a home to many creatures. What is the term for the home of a creature in the wild?
8. If there was no soil humans would not _____
9. Can you name a black and white animal that builds its home under the ground and finds its food in soil?
10. Trees grow in soil, what do trees provide for the planet that we need to breathe?
11. We need earth to build our _____.
12. In the earth flowers grow, which provide homes for insects and food for butterflies and bees, but they are also very _____
13. *Should any-one own the earth?*

FIRE / Light

1. Sunflowers move their heads during the day to follow the _____ of the sun.
2. Only _____ coloured plants can use sunlight to make food.
3. Our sun is really a _____
4. What time of year do we get more sun?
5. What is the sooty black sunlight that we burn on our fires?
6. We have found a new way to use the sun's light for energy - what is this called?
7. We are all made of sunlight. True or false?
8. What green organisms make food from the light of the sun?
9. The sun provides us with energy in different forms, such as LIGHT and _____
10. Our planet changes as we move around the sun, there are four main changes in Ireland, what are these changes called?
11. Where does all the energy on the planet come from?
12. The sun is very important because without it all life would not _____
13. *Can anyone own the sun or its light?*