

Plumbum - A Hex game for Plumbers - Level 2

A game for two to four players or teams of players. The activity is best suited to paired and small group work. This game is suitable to teach and reinforce environmental awareness issues to plumbing and related discipline students.

Object of the game

Learners are given the task of matching the correct answers to the correct questions. Once they have achieved this, the triangles together will represent a hexagon shape, with the outside of the hexagon not having any questions or answers on it.

Level

Level 2

What is included

1. A template of the activity, the triangles need to be cut out to give you a set of 24 triangles.
2. Tutor's answers.

Additional Requirements

1. None

Rules of the Game

Players take turn to see if they can match an answer to a question, in the same manner as dominoes. The matched questions and answers will form a hexagon shape. The outside of the hexagon will be a blank side of the triangle.

Notes

Some of the statements may sound controversial or simplistic and are intended to stimulate debate.

The game can be personalised to decide how long a player can take to answer a question.

This game can be played in teams, where the question is discussed and players take it in turns to give the answer decided on.

In a large class of students more than one game can take place at a time.



1	When is the world's oil supplies expected to peak?	2016
2	Which is the most commonly used fossil fuel for heating systems in the UK?	Gas
3	Define the term renewable energy.	Energy which can be replaced rapidly by natural processes.
4	What can water from a rainwater harvesting system be used for?	Flushing WC cisterns & clothes washing
5	What are grey water supplies most commonly used for?	Flushing WC cisterns
6	The UK Government has made a commitment that by 2050 carbon dioxide emissions will be reduced by how much?	50%
7	Solar thermal systems can be used to produce domestic hot water which will supply approx how much of the annual domestic hot water demand?	60%
8	Domestic space heating energy consumption can be reduced by?	Insulating properties to recommended standards
9	What percentage of UK energy is used in domestic premises?	27%
10	What are Photovoltaic panels used to produce?	Electricity
11	Recycled paper in the UK provides up to how much of the raw material used in newspapers?	75%
12	Energy efficient light bulbs save how much energy in comparison to normal bulbs?	70 - 80%
13	Solar thermal systems help to....	Reduce you hot water bill and pollution.
14	Acid rain is caused by which gas mixing with clouds to form a mild type of acid?	Sulphur dioxide
15	The most common form of air pollution caused by burning fossil fuels is?	Carbon dioxide
16	Gas condensing boilers help to?	Use energy more efficiently
17	Who has the overall responsibility for protecting the environment in the UK?	The Environment Agency
18	Environmental issues such as pollution, energy & water wastage, deforestation and waste management are the responsibility of whom?	Everyone
19	How fast is the Arctic warming up compared to the rest of the planet?	Twice
20	United Nations climate change scientists have said that by the end of the century the earth's average temperature could rise by?	2 – 6°C
21	Water covers 70% of the earth's surface, how much of it is fresh water?	2.5%
22	Recycling one aluminium can saves enough energy to run a TV for how many hours?	3
23	A typical bath uses 80 litres of water, a non power shower uses how many litres per minute?	5
24	Repairing a dripping tap saves (on average) how many litres of water per day?	13
25	How many kilograms of carbon dioxide does the average car produce per mile it travels?	0.3
26	Travelling by train produces how many kilograms of carbon dioxide per mile?	0.1
27	The average UK household creates how many tonnes of carbon dioxide every year?	6
28	What does SUDS stand for?	Sustainable Urban Drainage System
29	Climate change is often associated with increases in which natural occurrences?	Hurricanes, droughts, tidal waves and flooding
30	As the world's population increases what also increases?	Energy consumption