

### Activity 1

*Discuss with your partner what you think the words below mean.*

*atom nucleus fission fusion uranium plutonium radiation fallout  
nuclear fuel nuclear reactor nuclear weapon nuclear winter nuclear waste*

### Activity 2

*Match the definitions below to the words in Activity 1.*

1. A silvery radioactive metal.
2. The splitting of something into two or more pieces.
3. A long, cold period which may occur after a nuclear war if sunlight is blocked out by dust etc. in the atmosphere.
4. Unwanted radioactive substances which are by-products of the nuclear energy industry.
5. The radioactive dust in the atmosphere after a nuclear explosion, which eventually falls to the ground.
6. This consists of negatively charged electrons surrounding a positively charged nucleus.
7. A type of energy in the form of either electromagnetic waves or subatomic particles.
8. This is something that can be used to create nuclear energy.
9. This is found at the centre of an atom.
10. This is a place where controlled nuclear reactions are carried out to produce energy.
11. A grey radioactive metal.
12. Something used to attack or defend a country.

### Activity 3

*Read the following questions and use them to start a conversation with your partner.*

1. Which countries in the world have nuclear power?
2. Is it fair that some countries have nuclear weapons and some are not permitted to?
3. Does your country have nuclear power?
4. What are the advantages of nuclear power?
5. What are the disadvantages of nuclear power?
6. What should be done with nuclear waste?
7. Should countries be allowed to test nuclear weapons? Why/not?
8. Where should nuclear tests be carried out?
9. What are the alternatives to nuclear power? What are the advantages and disadvantages of these alternatives?
10. How would life be different without nuclear power?

### Activity 4

*Go to **EnglishClub.com** and click on the 'TP Homework' icon. Use the information you find there to answer the questions below.*

1. How many different types of nuclear weapon are there?
2. How much of a nuclear explosion is made up of a) energy b) heat c) radiation?
3. When was the first atomic bomb exploded?
4. What is the answer to the Quick Quiz?

**Activity 5**

**'Only *some* countries should be allowed to develop their nuclear potential.'**  
**What do you think?**

If you would like to express your opinion on this subject go to **EnglishClub.com** and click on the 'TP Discussion' icon to take part in the forum discussion there.

**N.B. Netiquette! PLEASE CHANGE THE DEFAULT SUBJECT LINE TO INDICATE THE OPINIONS IN YOUR POST BECAUSE IN A BUSY THREAD IT HELPS PEOPLE DECIDE WHICH POSTS TO READ!**

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