The average dose per year from working in a nuclear power station is 0.18 mSv, about the same as taking two transatlantic flights.

A chain reaction is set in motion as atoms are split by neutrons, releasing more neutrons to carry on the chain reaction.

In a pressurised water reactor, water reaches temperatures of up to 300 degrees Celsius to produce steam, which drives a turbine.

1kg of enriched uranium fuel could power a house for 166 years.

A UK reactor requires almost 70 Olympic swimming pools of water per day for cooling. Thankfully this water is recycled!

In a pressurised water reactor, water reaches temperatures of up to 300 degrees Celsius to produce steam, which drives a turbine.

1kg of enriched uranium fuel could power a house for 166 years.

Find them diggings for gold in ground which are easier to find ores mined from uranium fuel.

3 million tonnes of coal can generate the same amount of electricity as just 24 tonnes of uranium.

A chain reaction is set in motion as atoms are split by neutrons, releasing more neutrons to carry on the chain reaction.

A chain reaction is set in motion as atoms are split by neutrons, releasing more neutrons to carry on the chain reaction.

 Uranium

Fuel

ORE

Electricity

Work

Protection

Coolant

Generation

Oil

RADIATION

PLAY WITH NEUTRON AND FRIENDS

INSTRUCTIONS
1. Cut around the outside of the dotted lines
2. Fold in half diagonally, and in half again
3. Unfold and open out, fold each corner into the middle
4. Turn over and repeat
5. Turn over so you can see the pictures
6. Slide your thumb and your finger behind 2 of the objects and press together so they bend around and touch
7. Turn over and repeat with the thumb and finger of the other hand for the other two objects
8. All the characters should now be at the front with centres touching and you are ready to use!

FIND OUT MORE
manchester.ac.uk/dalton
dalton@manchester.ac.uk
@DaltonNuclear
#TalkNuclearUoM