

Nuclear Energy

Wordsearch



WASTE	NUCLEUS	RADIATION	REACTOR	POND
NUCLEAR	FISSION	CORE	MATERIAL	FUEL
POWER	ATOM	ACTIVITY	ENERGY	ROD
VESSEL	ELEMENT	PLANT	PARTICLE	DOSE



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Atomic Quiz

1. What does DMTR stand for?

2. In what year did the first nuclear reaction in Scotland happen in a criticality test cell at Dounreay? _____

3. Dounreay created the first modern apprenticeship on what subject in 2003?

4. What part of Dounreay appeared on a postage stamp in 1964?

5. How many fuel pins does a standard fuel assembly contain? _____

6. What are the names of the four 'atomic' housing estates in Thurso?

7. When was the first Ormlie Ball held in Thurso? _____

8. What does UKAEA stand for?

9. What was the first fast reactor in the world to supply electricity to a national grid? _____

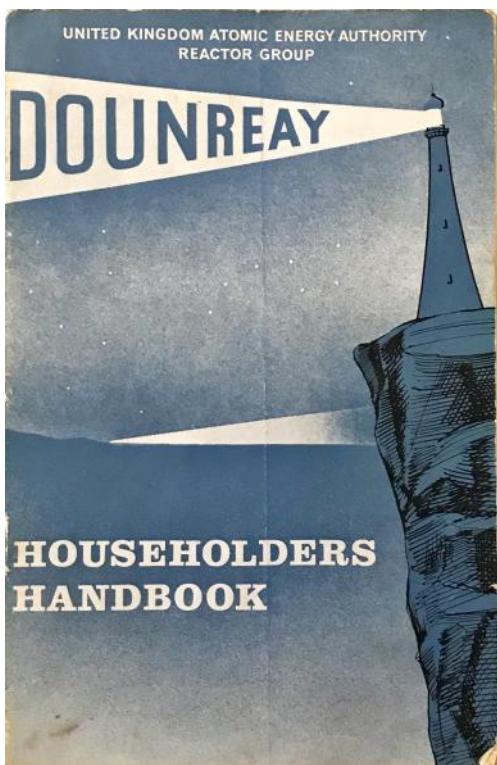
10. Where is the PFR Stone Sculpture located now?



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DOUNREAY HOUSEHOLDER'S HANDBOOK

A copy of the Dounreay Householder's Handbook (P879/4) was given to everyone who was allocated an 'atomic house' by the UKAEA. It gave detailed advice on things like local schools, how often the bins were emptied and instructions on how some of the features of the houses worked, like this example of a tap below.

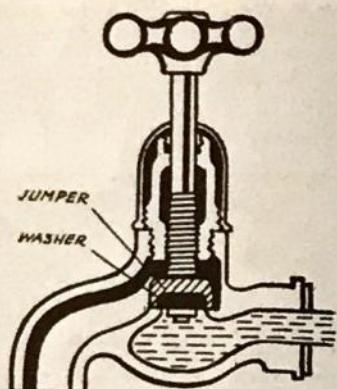


Have a look around your house and see if you can draw a diagram or some instructions on how something works for someone who's never been there before.

TAPS

HOW THEY WORK

When turning off, spindle rotates downwards in tap body pressing washer down on to seating. When turning on, spindle rotates upwards. Water pressure forces jumper up, except in hot taps where jumper is fixed to spindle.

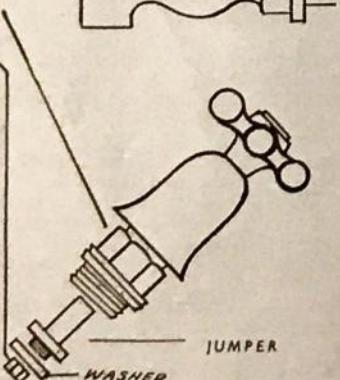
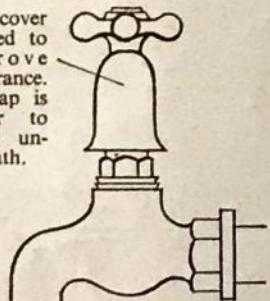


IF THE TAP DRIPS WHEN TURNED OFF or makes hammering noises when partly turned on FIT A NEW WASHER.

HOW TO RE-WASHER A TAP

- (1) Turn off the stop-cock.
- (2) Open tap fully until the water is run off.
- (3) If the tap is fitted with a cover, unscrew it to expose the nut.
- (4) Hold the tap firmly and unscrew the nut with a spanner.
- (5) Remove the head of the tap.
- (6) Unscrew this nut and remove the old washer.
- (7) Fit a new washer of correct type and tighten the nut securely.
HOT WATER—Rubber composition.
COLD WATER—Composition or leather.
- (8) Replace jumper and head of tap and tighten with spanner. Screw down the cover.
- (9) Turn the tap off, and the water on and check that it works properly.

This cover is fitted to improve appearance. The tap is similar to others underneath.



IN COLD WATER TAPS THE JUMPER IS SEPARATE AND CAN BE LIFTED OUT.
IN HOT WATER TAPS THE JUMPER IS FIXED IN THE SPINDLE AND MUST NOT BE SEPARATED



Atomic Quiz Answers

1. DMTR = Dounreay Materials Testing Reactor
2. 1957
3. Apprenticeship in Nuclear Operations and Decommissioning in the UK
4. The Dounreay Dome (DFR)
5. 325 fuel pins
6. Thurso Housing Estates are: Castlegreen, Ormlie, Pennyland and Mount Vernon
7. First Ormlie Ball was held on 26th October 1955
8. UKAEA = United Kingdom Atomic Energy Authority
9. DFR—Dounreay Fast Reactor
10. The PFR Stone Sculpture is located at Nucleus: The Nuclear and Caithness Archives



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