

Green Deal Hex-Game

Insulation/Energy Reduction: - 30 Questions

1. Q: What is the Green Deal?
A: It is the Government Policy for improving the energy efficiency of buildings
2. Q: What is the Golden Rule?
A: All savings must cover the expected outlay
3. Q: Percentage of the UK's CO₂ emissions to be reduced by 2020 on 1990 levels
A: 34%
4. Q: Three main types of insulation used in cavity walls
A: Foam Insulation, Mineral Wool, Granules/Beads
5. Q: Insulated doors must have a U-value of 1.8W/m²K. A lower U-value means?
A: Better insulation properties
6. Q: Does the Green Deal cover better insulated windows (e.g. double glazing)?
A: Yes
7. Q: Percentage of savings in switching from incandescent bulbs to LEDs?
A: 90%
8. Q: One disadvantage of internal solid wall insulation.
A: Floor space is reduced
9. Q: Homes built before 1920 usually have what type of walls?
A: Solid
10. Q: Most homes built after 1920 usually have what type of walls?
A: Cavity
11. Q: When insulating a flat roof, how much of a gap should one have?
A: 50 mm of ventilation space to avoid condensation
12. Q: A disadvantage of exterior wall insulation.
A: May require planning permission
13. Q: Before installing micro-generation technologies, it is important to
A: Reduce the building's energy consumption
14. Q: What potential problem can occur with internal cladding?
A: Condensation
15. Q: What is an R-value (insulation)?
A: A measure of thermal resistance

16. Q: What is the purpose of a cavity in a cavity wall?
A: Prevent dampness moving from the outside wall to the inner
17. Q: When insulating a hot water cylinder it is good practice to also do what?
A: Insulate the pipe-work at the same time
18. Q: What must be considered prior to the installation of Solar Water Heating?
A: Roof structure/condition, scaffolding requirements
19. Q: Before installing a wind turbine what issues need to be considered?
A: Access issues/rights, neighbours, wind availability
20. Q: Where would one use draught sealing?
A: Windows, doors, suspended floorboards
21. Q: What are the two ways to draught-proof an unused chimney?
A: Cap the chimney pot; use a chimney balloon
22. Q: What is the easiest way to cut lighting bills?
A: Turn the lighting off, even if it is for a short time
23. Q: What do most wind turbines do during high wind speeds?
A: Auto shut down
24. Q: How is heat distributed using a solar thermal panel?
A: A solution, usually glycol, moves from within the panels to a tank of water
25. Q: What is the key benefit of intelligent lighting controls?
A: Energy savings
26. Q: What is the Feed-In-Tariff?
A: A scheme which pays you for generating electricity using renewable sources
27. Q: What type of insulation material is light-weight yellow, pink, or white?
A: Fibreglass
28. Q: Type of insulation material made up of loose fibres that are small greyish flat pieces.
A: Cellulose
29. Q: What type of insulation material is dense grey or off white?
A: Rock wool
30. Q: Once involved in the Green Deal can someone switch their electricity company?
A: As long as the new supplier is participating