Unit 202: Changing practices over time

# Worksheet 3: 21st century construction techniques and technologies (learner)

Task 1: State two advantages and two disadvantages for each of the following:

Smart heating controls

|  |  |
| --- | --- |
| Advantages | Disadvantages |
|  |  |
|  |  |

Heat pumps

|  |  |
| --- | --- |
| Advantages | Disadvantages |
|  |  |
|  |  |

Renewable hydrogen

|  |  |
| --- | --- |
| Advantages | Disadvantages |
|  |  |
|  |  |

Task 2: Work on your own to answer the following questions.

1. What is the chemical formula for hydrogen?
2. H5
3. CO
4. H2
5. H20
6. In relation to trade associations, what does the abbreviation CIPHE mean?
7. Chartered Inspectors of Plumbing and Heating Engineering
8. Chartered Installers of Plumbing and Heating Engineering
9. Chartered Industry of Plumbing and Heating Engineering
10. Chartered Institute of Plumbing and Heating Engineering
11. The UK aims to achieve “net zero” emissions by which year?
12. 2030
13. 2040
14. 2065
15. 2050
16. Which building regulation deals with the conservation of fuel and power?
17. Approved Document Part H
18. Approved Document Part P
19. Approved Document Part A
20. Approved Document Part L
21. Which environmental technology converts a low-temperature heat source to a higher-temperature using the refrigeration cycle?
22. Hydrogen fuel cell
23. Heat pumps
24. Combination boilers
25. District heating
26. Renewable hydrogen refers to hydrogen gas that is produced using renewable energy sources. Which of the following would be classed as a renewable source?
27. Wind
28. Coal
29. Oil
30. Natural gas
31. Which of the following is a type of heat pump?
32. Wind source
33. Rainwater source
34. Hydropower source
35. Ground source
36. Who is the official gas registration body for the United Kingdom?
37. Corgi
38. Gas Safe
39. Blue Flame
40. Safe Gas