**Unit 202: Changing practices over time**

# Worksheet 5: 21st century construction methods (Tutor)

**Task 1**: Answer the following questions about methods of 21st-century construction.

1. Sort the following equipment into the correct categories.

drone laser scanner measuring wheel surveying chains VR headset

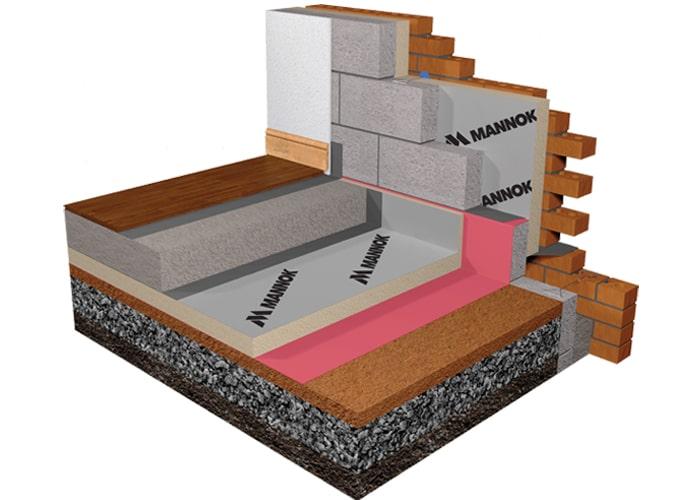
Answer:

|  |  |
| --- | --- |
| **Traditional** | **Modern** |
| surveying chains | drone |
| measuring wheel | VR headset |
|  | laser scanner |

1. What does BIM stand for?

Answer: building information modelling

1. Label the components of the diagram below using the given words.



concrete

concrete

DPM

hardcore

insulation

sand

insulation



DPM





sand



hardcore

1. In your own words, what does the term ‘prefabricated’ mean?

Answer: An item or component that is made before it is required, often offsite.

1. What are the benefits of prefabricated building methods?

Answer:

* accuracy
* speed
* work can continue on-site while other elements are produced offsite
* less waste
* guaranteed costs
* less skilled labour
* no impact from weather.

*Other answers at tutor’s discretion.*

1. What are the most common reasons for using composite materials?

Answer:

* longevity
* maintenance costs
* appearance
* performance
* strength
* a vast array of design options.

*Other answers at tutor’s discretion.*

1. How have power tools developed and what impact have they had on the construction industry over the last 20 years?

Answer:

* All power tools can now be corded or cordless – Increased speed and manoeuvrability of workers when using tools.
* Brushless options are now available – Increased lifespan of power tools so reduced likelihood of breaking down.
* Lithium ion batteries – Increased reliability and lifespan of batteries so less time spent charging batteries.
* Safety – Tools are now safer as lower voltage tools are now as powerful as their corded counterparts.

*Other examples at tutor’s discretion.*

1. Name **three** relevant trade bodies associated with your chosen trade.

Answer: Any three from:

* Build UK
* Federation of Master Builders
* FENSA
* Chartered Institute of Builders
* Guild of Master Craftsman
* Institute of Carpenters
* British Woodworking Association
* NHBC

1. In your own words, describe the benefits of joining a trade body.

Answer: Paragraph or list including three or more of the following points:

* networking
* training and education
* recognition
* influence
* insight
* promotion
* best practices/standards
* exchange of ideas.