**Unit 202: Changing practices over time**

# Worksheet 6 (Tutor)

1. What are the **four** requirements to meet passive house performance?

* Highly insulated
* Mechanical heat recovery and ventilation
* Triple glazing
* Air tightness

1. List **four** examples of retrofitting.

Accept any four of the following:

* Strengthening walls
* Installing triple glazing
* Installing loft insulation
* Installing EWI or IWI systems
* Installing heating and ventilation systems
* Fire proofing
* Sound proofing

1. Define augmented reality (AR) in construction.

Being able to visualise a computerised structure or design before it is constructed.

1. Provide **three** advantages of using a drone in construction.

Accept any three of the following:

* Being able to survey chimneys without erecting scaffolding
* No cost for erecting access equipment
* Being able to survey high rise buildings for maintenance
* Being able to visualise remote and congested locations

1. What are the **four** main aims of building information modelling (BIM) for construction projects?

* Design
* Build
* Operate
* Maintain

1. List **four** advantages of using 3D modelling for construction projects.

* Accurate visualisation
* Identifying design errors
* Optimising the use of materials and schedules
* Lowering the cost of the project

1. Research 3D printing and suggest how it may change construction for the future.

* Could speed up the construction development
* Low waste during the development
* Less labour required onsite
* Increased accuracy of build