# Unit 106: Introduction to emerging technologies in construction and the built environment sector

# Worksheet 8: Evolving materials (tutor)

1. Which two properties of graphene make it so useful to the construction industry?

Its strength and its electrical mobility.

1. Name three things that graphene can be used for in the construction industry.

Coatings, solar cells, electronics, long-lasting LEDs, impermeable paint, corrosion-proof steel, interactive panels, spray-on solar panels or self-cleaning concrete

1. Name two benefits of using a new and evolving surface covering such as Alusion panels.

* 100% recyclable
* Non-combustible
* Versatile
* The noise reduction

1. Name one of the benefits of a ventilated façade.

* Thermal
* Acoustic
* Structural

1. Yes or No. A liquid roof can be used:

to repair a leaking roof Yes

in cold and wet conditions Yes

on a sloping roof. Yes

1. Name another building component that liquid roofing has been developed for.

Tiles, down pipes, chimneys, roof lights, up stands or parapet walls

1. Is Transparent Aluminium a real see-through metal?

No, the material is Aluminum Oxynitride

1. Can concrete be healed, and if so how?

Yes, using a bacteria in the cement mix