## **External Factors: Forces**

**Compression**

1. What is a compression force? You can answer by typing here.
2. What usually happens to the size and shape of an object if it is compressed?

You can answer by typing here.

1. Draw and label a diagram showing how **compression** affects a brick wall.

Type this into Google Images to get you started. “compression forces on a brick wall”.

You should draw the diagram neatly in your book.

**Tension**

1. What is a tension force? You can answer by typing here.
2. What usually happens to the size and shape of an object if it is put into tension?

You can answer by typing here.

1. Draw and label a diagram showing how **tension** affects a brick wall.

Type this into Google Images to get you started. “tension forces on a brick wall”.

You should draw the diagram neatly in your book.

**External Factors: Environment**

7. Explain how the environment can affect a construction project.

By environment in this case we mean the climate and weather events the building might experience eg, heat, cold, rain, snow, wind

Give some examples, with photographs, of how different buildings are built in the following environments.

You should describe the features they are common to all buildings in those environments and why they have these features.

A) In Finland, north of the Arctic Circle where they experience extreme cold.

B) In Florida, where they will possibly experience high winds due to hurricanes.

C) In Dubai, where they will experience extreme heat.

D) In an alpine region such as high in the mountains of Switzerland, where they experience significant snowfall.