

The slide features a solid blue background. On the left and right edges, there are decorative geometric patterns composed of overlapping chevron and parallelogram shapes in yellow, magenta, and light blue. The text is centered in the upper half of the slide.

# Topic 7

## Stable Structures

# Stability

- Structures must be stable when being built
- Flat ground is important for stability
- Centre of gravity - always falls in a straight line - pg 332

# Unbalanced structures

- To find out if a structure is stable, draw a line straight down from the centre of gravity
- If the line falls outside the structure, it is unstable

# Foundations

- We sink pilings (large metal or concrete cylinders) through loose soil
- Make a solid layer by packing soil before paving
- Spread the load out, using wide footings

# Rotation

- While riding a bike, it is hard to balance while moving slowly
- Gyroscopes can be built to spin thousands of times per minute, to balance a structure

# Questions

Pg 340

1,2,3



