LEARNING JOURNEY

MATHS

Geometry

2D Shapes

Angle rules. Explain, Reason and check

Angles in Parallel Lines

Angles in Parallel lines problem solving

ASSESSMENT

Classifying triangles

Interior and exterior angles of triangles

Circle Theorems

ASSESSMENT

Exterior angles problems

Exploring properties of triangles

Angles in Quadrilaterals

ASSESSMENT

Triangles in a semi-cirlce

Cyclic Quadrilaterals

Angles at the centre and circumference

Angles in the same segment

Circle theorem problem solving

Alternate angle

Loci

Problem solving in context

ASSESSMENT

Constructing triangles

Identifying congruent shapes

ASSESSMENT

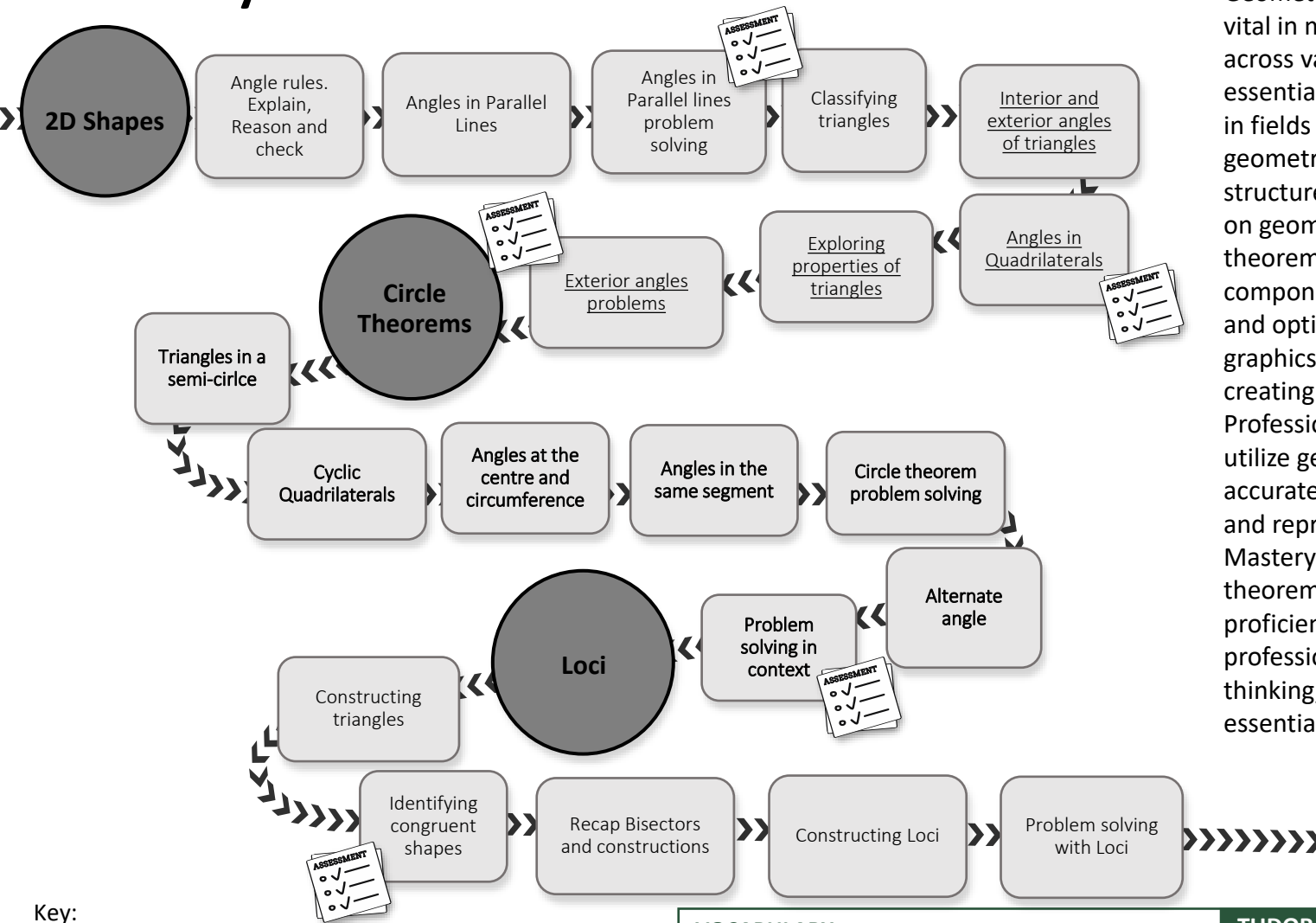Recap Bisectors and constructions

Constructing Loci

Problem solving with Loci

Geometry, encompassing circle theorems, is vital in mathematics for its practical applications across various careers. Circle theorems provide essential tools for solving real-world problems in fields like architecture, where understanding geometric properties aids in designing structures and planning layouts. Engineers rely on geometric principles, including circle theorems, for designing mechanical components, analysing stresses in materials, and optimizing structural integrity. In computer graphics and animation, geometry is crucial for creating realistic visual effects and simulations. Professions in surveying and cartography heavily utilize geometry, including circle theorems, for accurately measuring land, defining boundaries, and representing topographical features. Mastery of geometry, particularly circle theorems, not only enhances mathematical proficiency but also opens doors to diverse professions where spatial reasoning, analytical thinking, and precise visualization skills are essential.

Key:
Foundation
Crossover
Higher

VOCABULARY
- ❑ **Transversal**
- ❑ **Congruent**
- ❑ **Cyclic**
- ❑ **Locus**

TUDOR HABITS AND VALUES

Curiosity drives exploration and questioning, essential for grasping the intricacies of geometry. It motivates learners to investigate shapes, angles, and spatial relationships, fostering deeper understanding and creativity. Without curiosity, geometry risks becoming a dull memorization task, devoid of the inquisitiveness needed for meaningful comprehension