### The Learning Context

**Redecorating a room:**

- In small groups, or as individuals, identify a room that requires redecorating. This could be at home or around the school or workplace.
- Students to receive base information about measurement and number information associated with the process to be carried out.
- Students are to accurately measure the dimensions of the room and develop a sketch plan with all relevant features.
- Carry out the following calculations of areas for:
  - Carpeting.
  - Wallpapering.
  - Painting.
  - Other decorating.
- Research materials and costs based on the measured areas and requirements. Develop a budget to carry out the redecorating.
- Produce a design and plan to scale. Computer generated plans or cardboard box model could be incorporated.
- Choosing wallpaper/paint, determine colours and carpet type, trying to stay within budget.
- Visit retailers as part of the data collection process.
- Present the plan and budget to the owner of the room for feedback and possible actions.

### Assessment Ideas

- Group peer assessment.
- Accuracy and presentation of plans.
- Plus:
  - US 8492.
  - US 5241.
  - US 5228.

### Key Competencies

- Relating to others.
- Thinking.
- Using Language, symbols and text.

### Enterprising Attributes

- Effective communication.
- Decision making.
- Problem solving.

### Content

**Number** - Understand operations on fractions, decimals, percentages, and integers.

**Measurement** - Select and use appropriate metric units for length, area, volume and capacity.