# Activity – 12935 (v4) Construct a spaced residential deck up to one metre high as a BCATS project

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| **Student name:** |

1. Calculate the listed materials required for the following deck, attached to a house, to be built on a level site. Show your working on a separate sheet.

* Width 2.450m
* Length 3.500m
* Top of deck 450mm above ground level
* 2 anchor piles,   
  4 intermediate piles 125mm x 125mm H5
* Anchor pile holes 350mm x 350mm
* Intermediate piles holes 250mm x 250mm
* 2 rows of bearers 100mm x 75mm H3.2
* Joists 100mm x 50mm @ 600 centres H3.2
* Grip tread decking 88mm x 32mm H3.2

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| **Material** | **Amount required** |
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1. **Complete the order form your teacher gives you.**
2. Why should you use string lines when setting out pile positions?

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1. If a pile needs to be cut to length, which end should go in the ground?

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1. What size timber is required for deck joists spaced at 600mm, with a 2.000m span?

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1. What are the benefits of laying decking:

a) Smooth side up?

b) Grooved side up?

1. What type of nails should be used to fix 21mm decking exposed to the weather?

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