# Activity – 22129 (v3) Construct and maintain a basic residential fence and gate as a BCATS project

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| **Student name:** |

1. Calculate quantities for materials required for the following fence. Show your workings.

Length – 12.000m

Height – 1.200m

Maximum post spacing – 2.000m

100 x 100mm posts, set 600mm deep

100 x 50mm rails, in 3 rows

150 x 25mm palings, fixed with 10mm spacing

Fixings for rails to posts – 100mm galvanised flat head or jolt head nails

Fixings for palings to rails – 60mm galvanised flat head nails

Post holes 0.250 x 0.250 x 0.600m

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| **Material** | **Size** | **Amount required** |
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1. **Complete the order form your teacher gives you**.
2. How deep should posts be set in the ground for a 1200mm high fence?

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1. How many rails are recommended for fences above 1.2m and why?

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1. What are 2 methods that can be used for fixing rails to posts?

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1. What size gap should you allow between the palings and the ground?

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1. Describe how to make sure a gate frame is square.

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1. How can you check that a gate post is vertical?

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1. What clearance should you allow for when fitting a gate so it swings freely?

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1. Describe how to install latch hardware.

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1. Why is it important to check a fence regularly for damage and wear?

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1. What kind of metal protection is required for gate and fence hardware and fastenings?

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1. Calculate the palings required for the following fence:

Length – 15.2m

Height – 1.8m

150 x 25mm palings, fixed with 10mm spacing

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