# Activity 9 – 24351 (v2) Demonstrate knowledge of and use specified fixed machinery in the construction of BCATS projects

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| **Student name:** |

**Preparing stock for between centre turning**

* Find centres by marking diagonals at both ends.
* Cut down diagonal lines to a depth of approximately 3mm to support the spurs of the spur centre.
* Remove corners by planing where possible.
1. What advantage is gained by removing the corners?

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**Preparing lathe for turning**

Remove the spur centre from lathe and tap into the end of the timber using a mallet.

1. Why should the centre be removed from the lathe before fitting it to the stock?

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1. What could happen if the centre was driven into the stock while it is still mounted on the lathe?

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1. Why should a steel hammer never be used to drive the centre in?

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**Position work on lathe and adjust tailstock to fit**

1. What does a high-pitched squealing noise coming from the tailstock indicate and how can it be stopped?

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**Check operating speeds are correctly set for the size of stock**

**Set tool-rest in position approximately 5mm away from work and lock in place**

1. What will tend to happen if it is set with a large gap between the tool rest and the work?

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**Rotate work by hand to ensure that it clears the tool rest**

1. What can happen if the tool rest is not properly locked in place?

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