

**Year 10 Metalwork Lathe Operations**

**1. When using the metal lathe, safety glasses are needed when?**

A. While turning pieces at high speeds

B. While turning pieces at slow speeds

C. Only when starting the machine

D. During all lathe operations

**2. A Metal lathe is only used for turning metal?**

A. True

B. False

**3. A manufacturing process, typically conducted on a lathe, whereby a visually-attractive diamond-shaped (criss-cross) pattern is cut or rolled into metal is called** .

A. Facing

B. Knurling

C. Tapering

D. Threading

**4. While knurling, extra amounts of lubrication should be used?**

A. True

B. False

**5. Check the boxes that are correct. The lathe performs what kind of functions.**

A. Sanding

B. Knurling

C. Welding

D. Cutting

E. Drilling

F. Extruding

G. Bending

**6. The lathe uses a \_ \_ \_ \_ \_ to hold the material**.

**7. What two types of chucks can be used to hold material while working with the lathe?**

**8. You should remove all baggy clothing, jewlery and tie long hair up out of the way**.

A. True

B. False

**9. Always remove the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ before engaging the lathe**.

A. Safety guard

B. Cutting tool

C. Chuck wrench

D. Metal chips

**10. NEVER try and stop the lathe from moving with your hands.**

A. True

B.False



**A typical Metal Centre Lathe: Label the missing parts.**

1. Tool Post 5. Tailstock Assembly
2. Carriage 6. Chuck
3. Carriage Traversing Lever 7 Cross Slide
4. Headstock 8 Dead Centre

**Explain the following basic Lathe operations. (*At least a sentence is required for each.)***

1. Parallel Turning
2. Facing
3. Taper Turning
4. Knurling
5. Parting Off