Basic rules of the preparation od cavities:

- 1. Access to the cavity (standard diamons, high speed handpiece)
- 2. Outlines (prevention of extension in case of amalgam)
- 3. Excavation of carious dentin (round bur or excavator, sloe speed)
- 4. Retention (it means that the filling nmust not fall out)
- 5. Resistance (the filling as well as the remaining tooth structure must not breake)
- 6. Finishing of the borders (we prepare the retentive border for compoiste materials, no retentive bprder for glassionomers and amalgam, the red coded diamond bzr shloud be used.
- 7. Final control after washing and drying, good illumination.

Diamonds:

Black :extra coarse, Green :coarse Blue: standard Red: fine Yellow: extra fine White: ultra fine

Handpieces:

Turbine. 300.000 rpm. For úpreparation of the outlines esp. in enamel, removal of old fillings

Micromotor: max 40.000 rpm. The handpiece can gear the rpm:

Blue : 1:1 (no to slow, no to fast) Red: 1:5 to fast Green: 1:1,7 or . 2,5 to slow.

Principle of the connection between the filing material and hard dental tissue:

Composite: micromechanical Glassionomers: chemical Amalgam: macromechanical