**Carpentry Lesson Plan**

For two students

1. **Basic knowledge about wood.**

***What to learn in this chapter:***

* *Growth of a tree*
* *Converting*
* *Timber defects*

**Practical content for learners**

* 1. Every student gets a different text (from chapter 1. About wood, copies are in Chapter 6. Copies).
  2. Every student looks for the following information in his text:
     + What is softwood and what is hardwood?
     + Name four different timber defects.
     + What is converting? Name two ways to convert wood.
  3. The students compare their results.
  4. We look at some examples of timber and name some of its sections/defects.

1. **Drawing**

***What to learn in this chapter:***

* *What is technical drawing*
* *knowing and using drawing tools*
* *how to make outer lines, construction lines and dimension lines*

**Practical content for learners**

* 1. Every student reads the text about drawing (Woodwork for Primary School p.28-40).
  2. I explain and show how to:
     + Fix the paper on the drawing board.
     + Use the tee square.
     + Place the drawing on the paper.
     + Make outer lines, dimension lines and construction lines.
  3. Every student begins to draw:
     + Frame and measurement instruction (copies are in Chapter 6. Copies).
     + Little Box (sample from chapter 2. Drawing)
     + Sawing exercise (sample from chapter 2. Drawing)

1. **Tools and safety**

***What to learn in this chapter:***

* *All tools in our workshop*
* *How to handle them safely*
* *How to avoid accidents.*

**Practical content for learners**

* 1. Every student gets an empty list of the tool in our workshop (copies are in Chapter 6. Copies).
  2. All necessary information can be found in the tool chapters from the books “Woodwork” and “Woodwork for Primary School”.
  3. We read together the safety rules and hang them on the wall where they are visible (safety rules from chapter 3. Tools and Safety).

1. **Sawing exercise**

***What to learn in this chapter:***

* *Reading a drawing*
* *Creating a cutting list*
* *Planing a face and edge*

**Practical content for learners**

*Use try-square, pencil, bench plane and saw.*

* 1. To-do list
     + Handing out an empty list (copies are in Chapter 6. Copies).
     + Explaining shortly every step. Students write them into their lists.
  2. Creating a cutting list (copies are in Chapter 6. Copies).
  3. Preparing the timber.
     + Planing face and edge (instructions in Woodwork book p. 86-89).
     + Create a to-do list for planing a face and edge (copies are in Chapter 6. Copies).
  4. Marking out the cuts.
  5. Sawing the cuts.
  6. Finish the sawing exercise.
     + Sand every side to smoothen and remove all lines.

1. **Name board**

***What to learn in this chapter:***

* *Using chisels*

**Practical content for learners**

* 1. Draw (example in chapter 4. Practical exercises).
  2. Creating a to-do list (copies are in Chapter 6. Copies).
  3. Creating a cutting list (copies are in Chapter 6. Copies).
  4. Preparing the timber.
  5. Chisel the letters.
  6. Finish the name board.
     + Sand every side to smoothen and remove all lines.

1. **Joint Frame**

***What to learn in this chapter:***

* *Corner-halving joint*
* *Corner-bridle joint*
* *Mitred corner-bridle joint*
* *Knock-down tenon joint*
* *Dovetail half-lap joint*
* *T-bridle joint*
* *Strut joint.*

**Practical content for learners**

* 1. Draw (example in chapter 4. Practical exercises).
  2. Creating a to-do list (copies are in Chapter 6. Copies).
  3. Creating a cutting list (copies are in Chapter 6. Copies).
  4. Preparing the timber.
  5. Produce the joints.
     + Follow step by step instruction from the Woodwork book in chapter Techniques-Joinery.
  6. Glue the frame.
  7. Finish the frame.
     + Plane the ends of the joints.
     + Sand every side to remove all lines and make the joints fitting perfectly.

1. **Projects**

***What to learn in this chapter:***

* *Planning and produce of own products.*

**Practical content for learners**

* 1. Together we collect some ideas and then decide what to build. It can be a team project or everybody makes his own. Some examples are found in chapter 5. Projects or in the books “Woodwork” and “Woodwork for Primary School”.