

• Scavenger Hunt worksheet for

# Parts of a Machine & Sewing Equipment

## **Background**

In order to construct clothing or alter ready to wear purchases, you need to know what sewing equipment is available and their purpose. In this activity, members will work toward finding the most commonly used equipment. Beyond these supplies, there are more equipment available with all different purposes. While sewing can happen with a simple needle and thread, these supplies will help the process go smoother. Sewing professionals use these equipment to create garments from basic pajamas to extravagant wool suits. With knowledge and application, you can too!

## Sewing machine Seam ripper

• Tailor's chalk

45 minutes total

Activity I Materials

each student

• Seam gauge

Serger

• Thread

Scissors

Time

- Scraps
- Shears
- Bobbins
- Tracing wheel and paper
- Pins
- Pinking
  - Shears
- Rotary cutter, ruler, and mat
- Tools and feet
- Buttons
- Tape measure
- Numbered sticky notes #1-#19

#### Activity 2 Materials

- Machine Parts Note Guide
- Sewing Machine

### Space Required

Room with table space for each youth and a sewing machine. Additional tables or space to lay out sewing equipment.



## Before the Meeting

Put sewing equipment throughout the room for the scavenger hunt. Set up a sewing machine in good working condition for members. Easiest with one machine per member. Youth will collect their handouts after the introduction.



# **Activity | Instructions** (25 minutes)

- 1. Scavenger Hunt: there will be 19 pieces of equipment around the room with numbers attached. The members will go around the room and identify the equipment. Their worksheet has a list of the equipment on the back.
- 2. Compare: The members will pair up with a partner and compare answers.
- 3. **Demonstration:** The leader will demonstrate and explain how to use the equipment on the list.
  - a. What is the equipment used for?
  - b. What are safety precautions for each piece of equipment?
  - c. Where can you find all the small equipment provided by the school?
  - d. What is the process of getting the sewing machine ready each day?
  - e. Where will you find the ironing boards and irons?
  - f. Where will you find the rotary mats, cutters, and rulers? What do you do with them when you are done?
- 5. Discuss reflect and apply questions.

# Reflect and Apply Questions

- I. Review the equipment and the uses.
- 2. Have each student stand by a piece of equipment and tell the class what the name of that equipment is and what is for. When everyone has had a turn, have the members put the equipment away.



- 1. The leader will explain the parts of the sewing machine. The members will be able to move and touch the parts.
- 2. Members will fill in the blanks on page one of the sample packet while sitting in front of the sewing machine.
- 3. Select Different Stitches. Points to Discuss--
  - How to select different stitches, straight, zigzag, decorative
  - How to lengthen or widen a stitch
  - How to change needle position
  - Partner Time.
- 4. Members need to pair up and quiz each other on the parts and functions of the sewing machine.

## Reflect and Apply Questions

- I. If I switch the stitch width to 5 what will happen to my stitch?
- 2. What happens when my stitch length is on 5?
- 3. If I want the sewing machine to make a standard straight stitch what number does my stitch length need to be on?
- 4. Always turn the hand wheel \_\_\_\_\_ you.



## Other Related Resources:

Sewing Equipment Scavenger Hunt & Sewing Machine and Equipment Worksheet



## References

Adapted from: Utah Education Network



# Parts of a Machine & Sewing Equipment

Identify sewing machine parts and their function, safety, and maintenance. Members will identify sewing equipment and explain how to use them.

Activity | Scavanger Hunt Can You Name the Sewing Equipment?

Directions: Roam around the room and write the name of all of the

equipment. Do not leave anything blank. You do not have to start with

## Scavenger Hunt

Thread

Seam Gauge

Scissors

Seam Ripper

Tailor's Chalk

Scraps

Serger

Shears

**Bobbins** 

Tracing Wheel and Paper

Pins

Pinking Shears

Rotary Cutter

Rotary Mat

Tools and Presser Feet

Rotary Ruler

Iron

Tape Measure





number I.		
l	2	
3	4	
5	<u> </u>	
7	8	
9	10	
H	12	
13	14	
15	16	

# Activity 2 Sewing Machine & Equipment

**Directions:** Describe the functions of the following basic parts of a sewing machine.

18. \_

## **SEWING MACHINE PARTS:**

Needle stitch plate:

19.

I control of the cont
eed dog system:
Presser foot:
Bobbin case:
Spool pin:
Jpper thread tension:
Presser foot lifter:
Thread take-up lever:
oot pedal:
Hand wheel: (which way do you turn it?)
The flat side of the machine needle goes
which direction when being replace
BASIC SEWING EQUIPMENT:
What are notions:
Seam ripper:
Pins (dressmaker):
Shears/Scissors: (what is the difference?)
Rotary cutter:
Seam gauge:
Tape measure:
Fransparent rulers:
Marking pens/pencils:



# Parts of a Machine & Sewing Equipment

Identify sewing machine parts and their function, safety, and maintenance. Members will identify sewing equipment and explain how to use them.



Answer Key is provided as an additional resource





## Activity 2 Reflect and Apply Questions

Answer Key is provided as an additional resource

- I. If I switch the stitch width to 5 what will happen to my stitch? It will get wider (zig zag)
- 2. What happens when my stitch length is on 5? It will get longer
- 3. If I want the sewing machine to make a standard straight stitch what number does my stitch length need to be on? 3
- 4. Always turn the hand wheel \_\_\_\_\_\_ towards

## Sewing Machine and Equipment Answer Key

**SEWING MACHINE PARTS:** 

Needle stitch plate: plate under presser foot with stitch guide lines

Feed dog system: feeds the fabric through the machine **Presser foot:** raises and lowers, puts pressure on the fabric.

**Bobbin case:** holds the bobbin **Spool pin:** holds thread in place

**Upper thread tension:** guides the upper thread, if not properly adjusted, stitching

will appear uneven and puckered

Presser foot lifter: raises and lowers the presser foot

Thread take-up lever: moves the thread through the upper thread tension discs **Foot pedal:** controls the speed at which the fabric moves through the machine Hand wheel: (which way do you turn it?) turn it towards you. It allows you to manually move the needle up and down.

The flat side of the machine needle goes which direction when being **replaced?** towards the back of the machine

### **BASIC SEWING EQUIPMENT:**

What are notions: items used to make an outfit such as buttons, zippers, thread,

hook and eye, etc.

**Seam ripper:** used to remove stitches

Pins (dressmaker): holds fabric together while sewing

**Shears/Scissors:** (what is the difference?) shears—large scissors used to cut fabric

scissors—smaller, used to cut out patterns, etc.

Rotary cutter: Round cutting tool with a sharp blade

**Seam Gauge:** 6" ruler used to gauge hems and small measurements **Tape measure:** 60" flexible tool used to take body measurements **Transparent rulers:** used with rotary cutters, and pattern alterations

Marking pens/pencils: used to make marks on fabrics, should be able to remove

easily without damaging fabrics.



