



Improvised Tools

Science & Technology Branch – Elective Step 7

Purpose

The purpose of 'Improvised Tools' is to learn that tools are everywhere and crafting simple tools can be useful when camping or hiking.




1. What types of tools were crafted historically?
2. What are some tools that can be crafted from outdoor materials?
3. What are some good basic materials for crafting?
4. What are some safety tips for these tools?
5. What are some simple tools that you can make?

Notes to the Trail Guide //////////////////////////////////////

1. The goal is not for the boys to be experts at these topics, but to gain an increased knowledge and awareness of the Step.
2. Make it relative to your patrol.
3. Remember, these lessons should build from Fox to Hawk and from Hawk to Mountain Lion.
4. See the Leaders Guide for more information on Steps.

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Skill Progression

	<ol style="list-style-type: none">1. Picture matching2. Identification Game3. Nomenclature4. Recognize dangerous tools
	<ol style="list-style-type: none">1. Locate basic supplies2. Design a simple tool3. Construct a simple tool
	<ol style="list-style-type: none">1. Collect basic supplies2. Construct a tool

Helps

1. What types of tools were crafted historically?
 - a. **Goal:** To understand that simple tools have existed for a long time and have helped progress innovation and technology.
 - b. **Lesson:** Improvised tools have played an important role in our past.
 - c. **Examples:**
 - i. Axe: Collect and shape resources to build with.
 - ii. Knife: To hunt and to craft with.
 - iii. Shovel: digging and working the landscape.
 - iv. Rake: Clearing areas.
 - v. Rope: To fasten things and to perform work.
 - vi. Spear: Hunting and battles.
2. What are some tools that can be crafted from outdoor materials?
 - a. **Goal:** To understand that improvised tools can be created using simple materials in nature.
 - b. **Lesson:** Learn how a few simple improvised tools are created.
 - c. **Examples**
 - i. Rake: Tree limbs and small sticks.
 - ii. Hammer/Mallet: tree limb and a rock.
 - iii. Rope: Tree bark or vegetation.
3. What are some good basic materials for crafting?
 - a. **Goal:** To understand that most improvised tools use very simple and easy to find materials.
 - b. **Lesson:** Recognize some simple materials that can be used for crafting simple tools.
 - c. **Examples:**
 - i. Vines
 - ii. Bark
 - iii. Stones
 - iv. Sticks
 - v. Bone
4. What are some safety tips for these tools?
 - a. **Goal:** To understand that these tools are as dangerous as professional tools.
 - b. **Lesson:** Learn some simple safety principles for these types of tools.
 - c. **Examples:**
 - i. Proper safety gear.
 - ii. Tool failure (splintering and/or fragmentation).
 - iii. Safety distance for others.
5. What are some simple tools that you can make?
 - a. **Goal:** To understand that some simple tools can be easily crafted.

- b. **Lesson:** Learn how a simple tool is created.
- c. **Examples:**
 - i. Make a mallet.
 - ii. Make a rake.
 - iii. Make a small piece of rope.

Scripture Ideas

Isaiah 44:13

- Fox – Each tool has a purpose as does His word.
- Hawk – Tools serve a purpose and should serve to promote His kingdom.
- Mt Lion – Use all tools with respect to God and His creation.

Jeremiah 23:29

- Fox – The word of God is a powerful tool.
- Hawk – Use His word as a tool for your life.
- Mt Lion – The word of God can be a powerful tool to help others.

Activity Ideas

- See the relevant patrol and branch section of the activities
- Or, create your own activity relevant to your troop and region
- Use homemade tools to clean up around your facility

Game Ideas

- Check the games section online for game ideas
- Or, create a game that works for your patrol

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