Residue from the one tree goes to make fine copy paper

Student Outcomes:
• Understand that modern forestry is a highly efficient and sustainable industry making use of all tree parts to prevent waste, provide renewable resources, and value add
• Understand that low grade tree residues are used to produce high grade fine white copy paper

Task: Watch the Forest Learning video - ‘Going Bush – Residue from one tree goes to make fine copy paper’ then answer the following questions.

(a) Explain which part of the harvested tree is used to make fine white copy paper?

(b) Compare the fractions of wood used to make paper that come from plantation forests vs managed native forests?

(c) List the various stages of processing in the value adding chain to produce paper.

(d) What is the average time period for producing paper after tree harvest?

(e) What is another important value adding use for sawdust and pulp residue?

(f) Is energy generated from the burning of wood residues renewable? Explain
Supply of wood from Victorian Mountain Ash forests is not increasing as the areas that can be harvested are highly regulated and limited. How can the forest industry increase the quantity of high-grade appearance timber for use in flooring and furniture?
ANSWERS – Residue from the one tree goes to make fine copy paper
(a) The top section of small diameter (spindly) sawlogs
(b) Two thirds from planation forests; one third of low grade wood from managed native forests
(c) Wood residues from tree harvesting → Wood chips at chip mill → Wood pulp at pulp mill → paper for use in office
(d) 7 days
(e) Use of waste wood to fire boilers to generate electricity
(f) Yes. Wood is a renewable resource as it can be reproduced and regenerated by natural processes over time
(g) Use more of the middle grade structural and framing hardwood timber for use in higher grade flooring and furniture by value adding. Some of the lower to middle grade timbers can be replaced by plantation hardwoods for palings and pallets, and structures and frames

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