

# Roots & Shoots: A Sculptural Challenge

By [Paula Briggs](#)

This sculptural challenge is suitable for ages 7 through to adults. Just as we use drawing exercises as [warm-ups or icebreakers](#), we can also use making challenges such as this one to encourage learners to open their minds, build understanding, be inventive and practice dexterity skills.

Roots and Shoots challenges learners to take a "seed" or "source" and then build roots and shoots, up and out, using a variety of materials. The aim is to be playful; don't have a preconceived outcome in mind, instead let the process of playing and exploring with the materials lead you to the end result.



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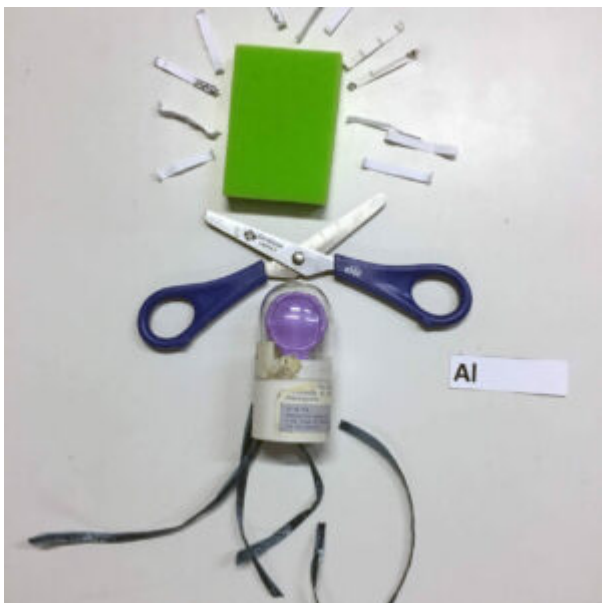
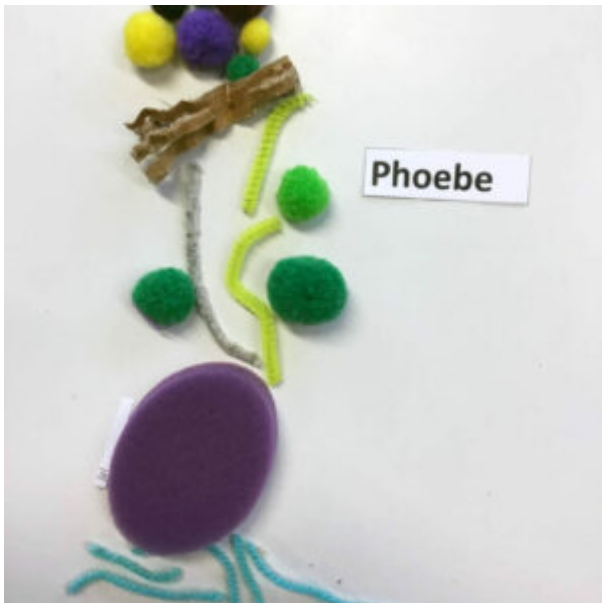
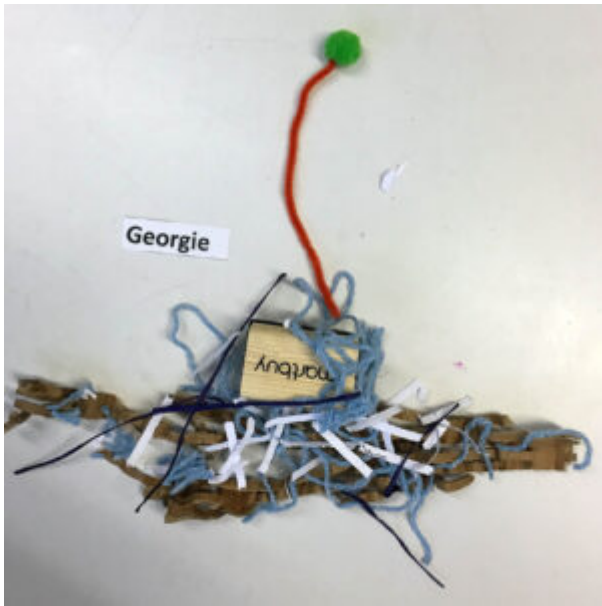
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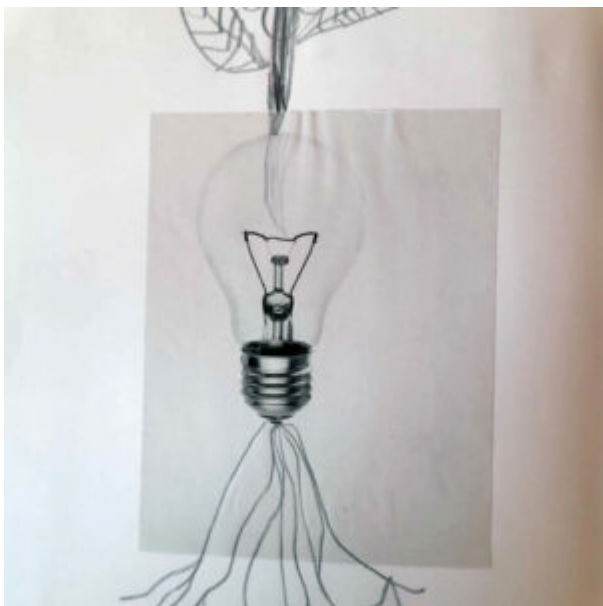
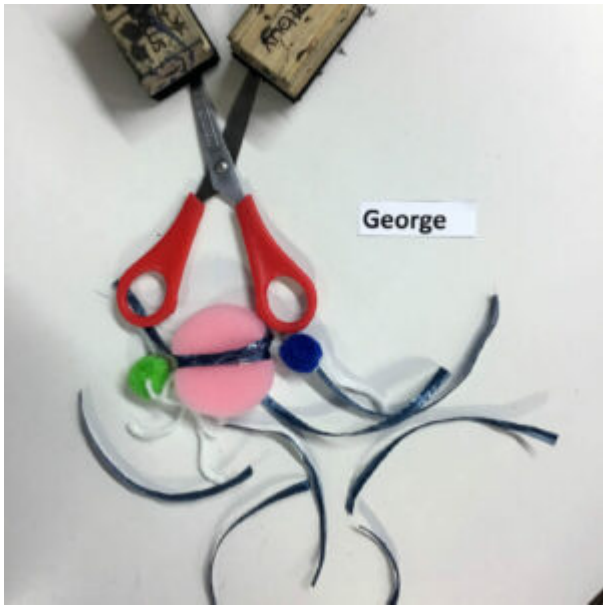
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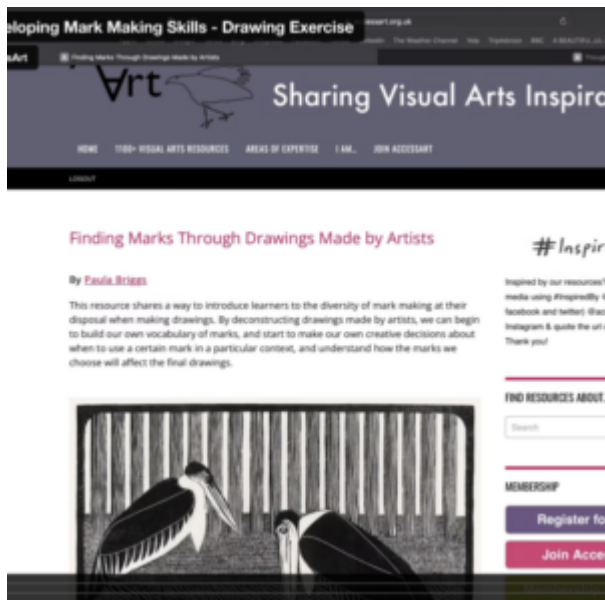
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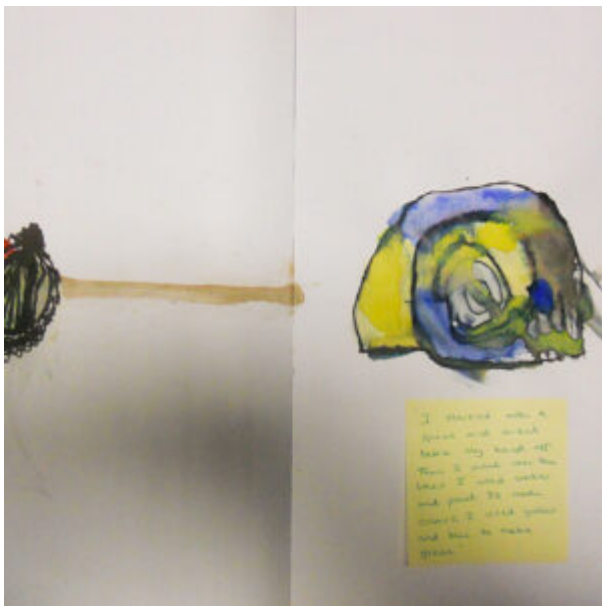
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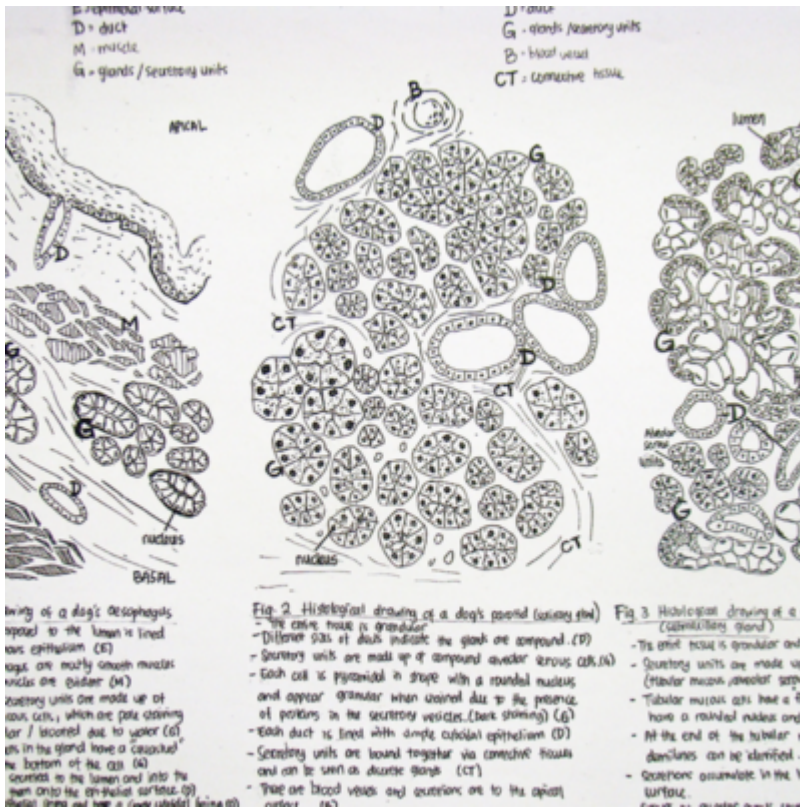


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being of a dog's esophagus, exposed to the lumen is lined with epithelium (E). Glands are mostly smooth muscle nuclei are basilar (M). Secretory units are made up of acinar cells, which are pale staining (due to water) cells in the gland have a caudal nucleus (N). The bottom of the cell (B) secretes to the lumen and into the duct onto the epithelial surface (E).

Fig 2 Histological drawing of a dog's salivary gland. The entire tissue is granular. Different sizes of ducts indicate the gland are compound (D). Secretory units are made up of compound acinar (serous) cells (G). Each cell is pyramidal in shape with a rounded nucleus and appear granular when stained due to the presence of proteins in the secretory vesicles (dark staining) (G). Each duct is lined with simple cuboidal epithelium (D). Secretory units are bound together via connective tissue and can be seen as discrete groups (CT). There are blood vessels and secretions are to the apical surface (A).

Fig 3 Histological drawing of a salivary gland. The entire tissue is granular and secretory units are made up of tubular mucous acinar groups. Tubular mucous acini have a thin layer of cuboidal epithelium and a rounded nucleus. At the end of the tubular secretory units, the ducts can be identified. Secretions accumulate in the lumen.

## Fay shares her working process in using drawings as a means of building understanding

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