

# Making Manipulatives



**PINPOINT**

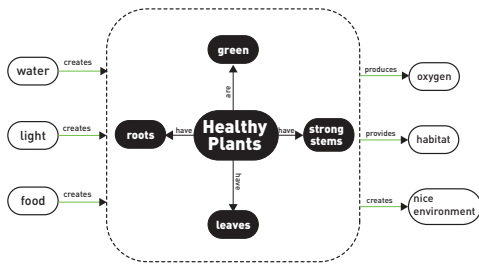


*The very act of generating a concrete representation establishes an image of the knowledge in the students' minds.*

Robert Marzano

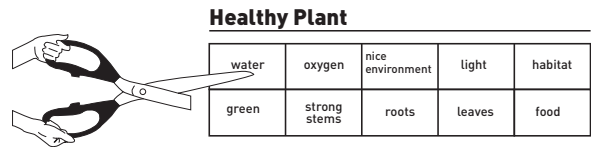
**1 Create a graphic organiser**

Create a diagram that organises the concepts you want your students to learn.



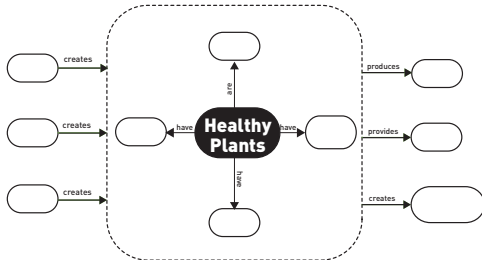
**2 Cut up your graphic organiser**

Make cards of the words you used in the graphic organiser. And don't forget to laminate them for repeated use. Or print out the words and leave the students to cut them up for themselves (later on).



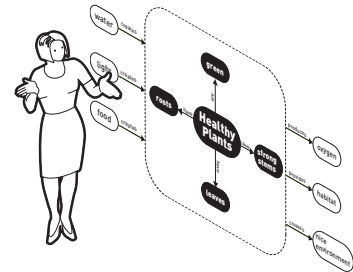
**3 Remove the words**

Make a photocopy of your graphic organiser. Cover the words with paper or white paint. Or simply draw it again with the words missing.



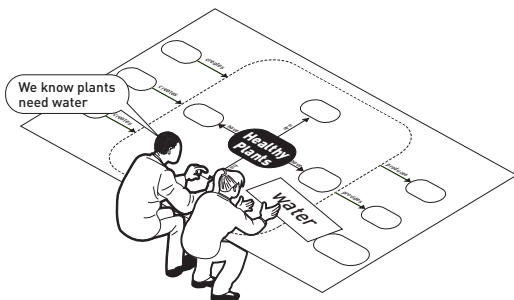
**4 Teach with graphic organiser**

Use the graphic organiser to support your explanation. Scan it into Powerpoint.



**5 Students manipulate vocabulary**

Give your students the scaffold diagram and vocabulary. Let them place the words where they think it makes sense based on your explanation and their prior knowledge.



**6 Test their understanding**

Organise students to make a presentation of their manipulative, explaining each of their placements. Ensure other students question them on their choices.

