



# Te Hangarua

E whai ake nei ētahi tauira pātai me ētahi tauira tohutohu mō te pāngarau me te hangarua. Koirā pea hei imatatanga whakawhiti kōrero mā kōrua ko tō tamaiti.

Here are some possible pāngarau questions or instructions about recycling that might start conversations between you and your child.

Te Whakarōpū	Grouping and Classifying
Wehewehea ngā taonga hangarua ki ētahi rōpū. Whakamāramatia mai ngā rōpū. He rōpū aha tēnei?	Sort the recycling stuff in to groups. Explain your groups. What is this group?
Tatauria e tāua ia rōpū.	Lets count each group.
E hia ngā mea kōata kei te ipu hangarua?	How many glass things have we got in the recycling bin?
He maha ake ngā mea kirihou, ngā mea kōata rānei?	Have we got more plastics, or more glass?
He aha ngā mea papatahi e tukuna ana ki te ipu hangarua? He aha ngā mea ahu-toru?	What are the flat things that are being put into the recycle bin? What are the 3-dimensional things?
He aha ngā mea ngohengohe e tukuna ana ki te ipu hangarua? He aha ngā mea mārō?	What are the soft things that are being put into the recycle bin? What are the hard things?



Ngā Āhua	Shapes
He aha ngā mea whai porowhita kei roto i te ipu hangarua?	What are the circular things in the recycle bin?
Ko te rango te ingoa o te āhua o te kēne. Raupapahia ngā rango mai i te mea tāroaroa ki te mea poto.	Cylinder is the word for the shape of the cans. Put all the cylinders in order from tallest to shortest.
Ko te paenga te ingoa o te tawhiti, huri awbio i tētahi rango. Kei hea tētahi rango paenga iti, arā, he whāiti.	Circumference is the word for the distance around a cylinder. Where is a cylinder which has a small circumference, that is, one that's narrow.
He rango katoa ngā pātara e tukuna ana ki te ipu hangarua?	Are all of the bottles in the recycling bin cylinders?
He roa, he whāiti te pouaka pēniho. Kimihia tētahi pouaka whānui.	The toothpaste box is long and narrow. Can you find a wide box?
E hia te maha ake o ngā mea kōata i ngā mea kirihou?	How many more glass things are there than plastic?



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Te Hanga	Construction
Whakapiria te rango roa ki te pouaka. Ko te pouaka hei whare, ko te rango hei fimere.	Join the long cylinder to the box. The box can be the house and the cylinder the chimney.
Whakatūria te rango kia poutū.	Stand the cylinder up so that it is vertical.
Kia hia ngā matapihi mō tō whare? Tuhia.	How many windows should your house have? Draw them in.
E hia ngā kokonga o te whare? E hia ōna mata?	How many corners has the house got? How many sides?
He kokonga kei te rango?	Has the cylinder got any corners?
E hia te teitei ake o te fimere i te whare?	How much higher is the chimney than the house?
Kōrerohia mai ngā āhua o ngā wāhanga o te tinana o te tangata kua waihangaatia e koe.	Tell me then names of the shapes of the different parts of the body that you have made.
He tapawhā rite te tinana, he tapawhā hāngai ngā ringaringa.	The body is a square, the arms are rectangles.
Whakaputua ngā taupoki pātara tētahi ki runga i tētahi. Pēhea nei te teitei o te whakaputunga ka taea e koe i mua i te takanga ki raro?	Stack the bottle tops one on top of the other. How high can you go before they all fall down?
Ki tō titiro, e hia ngā taupoki pātara kei konei? Tatauria kia kitea ai tō pātata.	How many bottle tops do you think are here? Count them to see how close you were.
Wetekina ngā taha o tēnei pouaka kia kitea ai tōna hanga mai i te kāri papatahi.	Take apart the sides of this box so we can see how it was made from flat card.

