

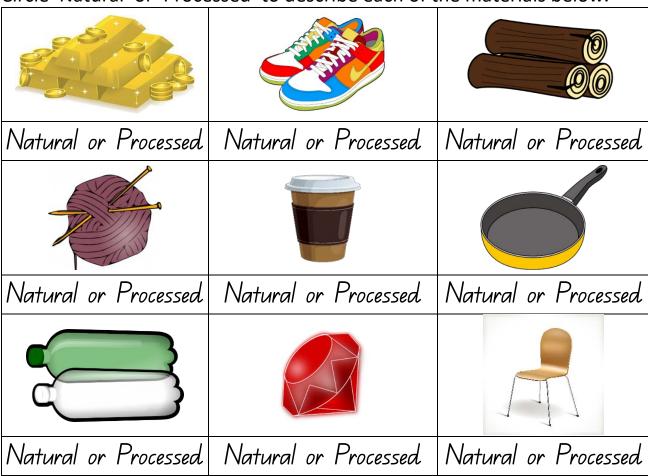
## **Year 4 - Creating Processed Materials**

STUDENT WORKSHEET

With Street Science, you became a junior scientist and **processed materials** to produce some cool caviar, wacky worms and polymer balls!

1. Some of the materials we encounter everyday are **natural** products. Some materials are **processed** to have different properties.

Circle 'Natural' or 'Processed' to describe each of the materials below.



Explain which of its **properties** make it useful for that purpose.

2. Choose one processed material from above and describe how it is used.



3. Alginate starts as brown seaweed in the ocean. Work in groups to correctly order the events below, showing how seaweed becomes the product that you used today! (Hint: you might have to do a little research!)

The pieces are washed in plain water, and in an <b>acidic solution</b> to help the alginate particles <b>get bigger</b> .	
The brown coloured liquid is strained to become <b>clear</b> , and remove any <b>debris</b> .	
Seaweed that grows naturally in the ocean is <b>harvested</b> by seaweed farmers.	
The alginate is forced to <b>crystallise</b> . These crystals are dried and can be crushed into a powder.	
The seaweed is removed from the acidic solution, and is put into a mixture of caustic soda, so it can be <b>extracted</b> from the seaweed.	
The seaweed is <b>dried</b> until it is crispy, and is then <b>crushed</b> into smaller pieces.	
Crushed alginate powder can be combined with many liquids, to create squishy solids!	