

Student name:

Student number:

Introduction to Materials

GCSE pgs. 134-137

ENGLISH	JAPANESE
Ceramic	陶磁器、セラミクス
Metal	金属
Polymer	重合体、ポリマー
Chemical	化学物質、化学薬品
Molecule	分子
Chain	鎖
Atom	原子
Properties of	～の性質、特性
Flexible	柔軟な、しなやかな
Design	デザイン、デザインする

Activity 1: *Listen to the presentation and fill in the missing information below.*

Fill in the blanks:

Materials can be _____ that is used to make something. _____
the _____ material for the right job is very important.

Discussion Question: Why should you not make shoes out of chocolate?

List at least 3 reasons why:

What are some good materials for shoes? (List 3)

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Fill in the blanks:

Leather is a _____ material for making shoes. This is because it is _____ and _____. Also, it is _____ at room temperature and _____ so it won't get wet.

Polymers are _____ chains of repeating _____. There are _____ types, _____ and _____.

Discussion: List 3 natural polymers (things made from natural polymers) and list 3 synthetic polymers (things made from synthetic polymers).

Natural	Synthetic

Questions: Look at pages 134-137 of your textbook, use scanning to answer the questions.

1. What basic needs do polymers meet for humans? (List 3) **[3 marks]**

2. Why are synthetic polymers used instead of natural polymers? List 2 natural polymers that are replaced with synthetic polymers and why. **[4 marks]**
