

Testing swimsuit fabric

This task is about testing a fabric for given properties.

Zoe, a well known clothes designer, is creating new swimwear.

Four different types of fabric have been sent to her and she has to decide which fabric would best suit her swimwear.

There are three properties that Zoe must consider. In **order of importance**, these are:

1. the fabric must not be transparent when wet,
2. the fabric must be able to be stretched on the diagonal, and
3. if possible, the fabric should be light-weight when wet.

For each property, carry out a "fair test" to help you decide which fabric you would recommend to Zoe. As the fabric must be dry to test its stretch, do this test first.

For each property you test, write down what you did and your results.

a) **Stretch**

Write down how you tested the stretch of each piece of fabric.

i)

ii)

Results

Fabric Type	Amount of Stretch
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

iii) List the fabrics in order of stretch:

1. _____ 2. _____ 3. _____ 4. _____
(stretched the most) (stretched the least)

b) **Transparency**

Write down how you tested the transparency of each piece of wet fabric.

i)

ii) Results

Fabric Type	Degree of Transparency
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

iii) List the fabrics in order of transparency:

1. _____ 2. _____ 3. _____ 4. _____
(the most transparent) (the least transparent)

c) **Weight**

Write down how you tested the weight of each piece of wet fabric.

i)

ii) Results

Fabric Type	Weight When Wet
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

iii) List the fabrics in order of weight when wet:

1. _____ 2. _____ 3. _____ 4. _____
(weighed the most) (weighed the least)

Thinking about the properties most important to Zoe, and your results, which fabric should Zoe make the swimwear from?

d)i)

Explain why you chose this fabric.

ii)
