

## Year 3 Science Task - Week 4

L.I. To draw scientific conclusion

**Success Criteria:**

I can report results and conclusions orally and in writing.

I can use scientific language with more accuracy



**Hot Wheels are looking to make a new toy speed ramp for their latest toy car. What materials will they use and why?**

Your task this week is to use scientific data to explain which material would make the best ramp for a toy car to race on.

Use the video below to watch a real experiment using the following materials: sand, wood, metal ruler, carpet, glue and soapy water. If you cannot access the video, use the results table to see the distance travelled by the toy cars.

<https://www.youtube.com/watch?v=mhZhBkJ2dHw>

Or search: [Cars Science Friction Experiments! | Pixar Cars](#) on You tube



Surface material	Distance travelled
Sand	15cm
Wood	30cm
Metal ruler	40cm
Carpet	20cm
Glue	10cm
Soapy water	45cm

What conclusions can you draw from this video/table?

Task 1: Order the surface materials from most to least useful.

Task 2: Write a paragraph discussing which material would make the best racing ramp.

### Think about:

Which surfaces created the most friction?

Which surfaces created the least friction?

Would the surface with the least friction make the best ramp?

Do any of the surfaces have too little friction?

**Use the sentence starters to help you:**

I observed that...

The surface that created the least friction was...

I know this because...

This means that...

The surface that created the most friction was...

I know this because...

This would make a good/bad ramp because...

The surface that would make the best ramp would be...

I think this because...

### Key vocabulary:

observed

friction

rough

rough  
smooth

smoot  
soft

soft  
hard