Year 9 Work 15th March Name:

Complete the work below either in the booklet or on Teams – hand any printed copies to your Tutor on Friday.

English Watch the video clips and make notes: Creative Writing: What makes a good short story? (thenational.academy)	**Maths** Sparx Maths – Complete the extra Home Learning that has been set. If you do not know your password, go to the Sparx site, and request a password reset.
Science Read through the information and answer the questions. 1) Speed	**History** The Museum of the World Using this interactive resource, explore the galleries and artefacts in the British Museum. Create a 'must see' guide to the museum including your top **5** artefacts. Museum of the World (britishmuseum.withgoogle.com)
Geography Complete the work on Volcanoes in USA. Lesson 3 4- 11th May Volcanic landscapes Yel.pptx	

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English

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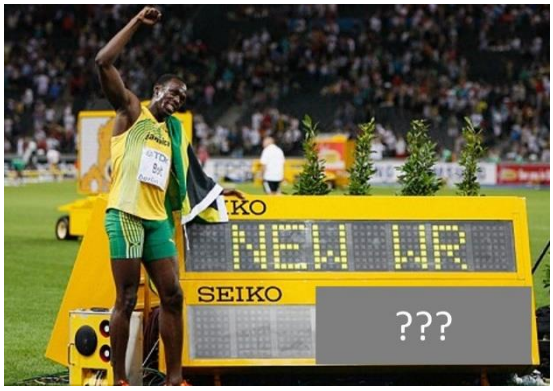
Science

Speed

Speed is a measure of how far an object has moved in a certain time. Speed is a **scalar**, while velocity is a **vector**.



They both can be calculated using the equation:
Speed = distance ÷ time
v = s ÷ t
where **v** is the velocity or speed (in m/s)
s is the distance (in m)
t is the time (in s)
This equation can be re-arranged to
Time = distance ÷ speed

Distance = speed x time

Example
Calculate speed if an objects travels 20m in 5 seconds

Distance is 20m. Time is 5 seconds. Speed is ?

- **Speed = distance ÷ time.**
- **Speed = 20m ÷ 5s**
- **Speed = 4m/s**

Example question: Usain Bolt ran his 100m world record at an average speed of 10.44 m/s. How long did it take for him to finish the race?
Step 1: Write the equation. Rearrange if necessary.
t = s ÷ v
Step 2: Write down the variables
s = 100 m
v = 10.44 m/s
Step 3: Calculate the answer
t = 100 ÷ 10.44 = 9.58 s

The average person **walks** at a speed of 1.5 m/s, **runs** at a speed of 3 m/s and **cycles** at a speed of 6 m/s. The speed of **sound** in air is 330 m/s.
Speed can also be measured in units of kilometres per hour (km/h) or miles per hours (mph).

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Questions

Q1 Work out the **speed** of a car travelling on a straight track for:

a) 100 m in 10 s =10m/s
b) 320 m in 16 s
c) 1500 m in 180 s
d) 700 m in 35 s
e) 1000 m in 200 s
f) 300 m in 20 s
g) 50 m in 4 s
h) 450 m in 22 s

Q2 **How far** does a bus move if it's travelling at:

a) 10 m/s for 30 s
b) 15 m/s for 20 s
c) 12 m/s for 180 s
d) 5 m/s for 70 s
e) 15 m/s for 28 s
f) 20 m/s for 20 s
g) 100 m/s for 300 s
h) 180 m/s for 20 s

Q3 **How long** does it take a car to travel:

a) 10 m at 20 m/s
b) 50 m at 10 m/s
c) 55 m at 30 m/s
d) 90 m at 20 m/s
e) 180 m at 6 m/s
f) 40 m at 12 m/s
g) 200 m at 8 m/s
h) 2,000 m at 16 m/s

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History

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Geography