

# SS Snapshot Science Newsletter

## Deep sea dive

Movie director James Cameron took a trip 11 km down to the deepest place in the ocean, the Mariana Trench. He made the 2 hour trip in a submarine called Deepsea Challenger.



Deepsea Challenger



[goo.gl/zqi0h](http://goo.gl/zqi0h)

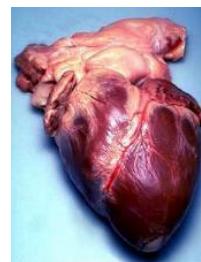
Scan the QR code to watch a video to hear what James thought about his trip.

**What happened to the length of the submarine during the trip? Use *forces* to explain why.**

**Extra:** Explain why there are very few living things in the deep ocean.

## Matters of the heart

The footballer Fabrice Muamba was taken to hospital during a match after his heart stopped beating. The good news is that he is now getting better.



A human heart

**What is the job of the heart? Why is it dangerous if your heart stops beating?**

**Extra:** What happens to your heart when you start exercising? Why?

## Handshake ban for British athletes



Stop that at once!

British athletes have been advised not to shake hands with rivals or VIPs at the Olympics this summer. Scan the QR code to read the news story.



[goo.gl/6k0b5](http://goo.gl/6k0b5)

**Why have they had this warning?**

**Extra:** What other advise would you give the athletes to stop this problem happening?



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## Teacher guide

- This resource has been written for students aged 8-12 and links with the KS2 and 3 science curriculum. It can be used as a poster, homework task or extension activity.
- Each story has two questions. The 'extra' question is designed to get the students thinking in more depth and apply their knowledge from other areas of the curriculum.
- Students can use mobile devices such as phones or tablets to scan the QR codes (using an installed app). This will take them directly to the webpage. Alternatively, they can type the shortened URL into a browser.

### Deep sea dive

For further information on this story see <http://goo.gl/U3Jui>.

Answers:

The submarine got shorter because of the forces pushing on it (explained in the video clip) (KS2) This is caused by high pressure (KS3).

**Extra:** There is no light which means no plants (they cannot photosynthesise) so no producers to convert inorganic substances into food to pass up a food chain. However, some forms of life have adapted to live at these depths, including bacteria that can break down chemicals, releasing the stored energy.

### Matters of the heart

Answers:

To push blood around the body (KS2) which carries oxygen and glucose to respiring cells (KS3). If your heart stops you will die (KS2) because cells cannot make energy (KS3).

**Extra:** Your heart rate increases when you exercise (KS2). This is because muscles are contracting and relaxing more quickly so cells are respiring at a faster rate. The heart pumps blood more quickly to the cells to supply them with the oxygen and glucose they need (KS3).

### Handshake ban for British athletes

For further information on this story see <http://goo.gl/5BpBI>

Answers:

To reduce the risk of infection. Microbes on the hands may be passed from athlete to athlete.

Extra: Use antibacterial hand wash, maintain good personal hygiene.

**For further KS2-5 science lesson ideas and free resources based on topical stories please visit the Snapshot Science blog: [www.snapshotscience.co.uk](http://www.snapshotscience.co.uk)**