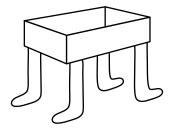


Name:	Form:
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## When vitamin D is missing

## Try this...

- **1.** Vitamin D helps bones grow strong. You can test the effect of vitamin D on leg bones by making the following models and testing them.
- **2.** Make four cylinders of Plasticine. Each one should be half a centimetre thick and five centimetres long.
- **3.** Bend each cylinder so that it makes a foot two centimetres long and a leg three centimetres long.
- **4.** Arrange the legs as the diagram shows so that they can support a matchbox tray.



- **5.** Put the matchbox tray on the legs. Place a coin in the tray and check the shape of the legs after each coin is added.
- **6.** Repeat step 5 until there are ten coins in the matchbox tray.
- **7.** Make four cylinders of Plasticine. This time each one should be three millimetres thick and five centimetres long.
- **8.** Bend the cylinders to make feet and legs as in step 3.
- **9.** Repeat steps 4 and 5.
- **10.** Keep adding coins one at a time and check the shape of the legs after each coin is added.

## Looking at the results.

11.	Which set of legs are stronger?
12.	How can you tell they are the stronger legs?
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13.	What happens to weak legs when they have to support a heavy weight?
<b>3</b>	