

DOUGAL DALEY'S SCIENCE HOMEWORK SHEET

Topic: Heat, Sound and Balance
Level – Perfect for Nerds

Try the following experiments and write down what happened.

Heat

An oven will keep warm for a long time after you switch it off. This means your mum can put a plate of dinner in the oven after she's switched it off and it will keep warm until you come home from football training. But what happens if she forgot to turn the oven off and it carries on cooking at full blast?

- Time until everyone notices the smell _____
- Time until smoke comes out of the oven _____
- Time until flames come out of the oven _____
- Time until everyone blames you _____
- Appearance of dinner _____
- Your appearance when you look at your dinner _____



Sound

Try all these and put them in order, loudest to quietest:

- Your sister's scream when you sneak up behind her and go **BOO!!!**
- Your mother's scream when she finds Ida your pet spider in the bath.
- Your dad's shout when he finds the TV remote in your room.
- Your sister's screech after doing the balance experiment below.

Balance

Fill a bucket with water and balance it very carefully on top of an open door.

- How far does the door have to open before the bucket falls off?
- How wet does your sister get when the bucket falls on her head?
- How loud does she screech?
- How long will you be grounded for?

