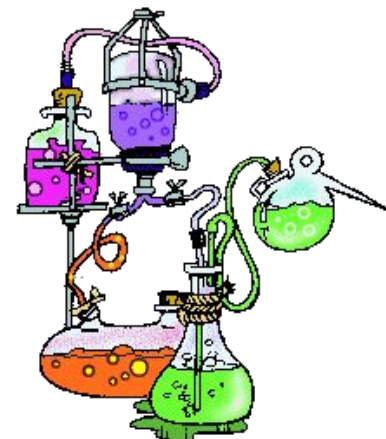




# Science at CSG



A good scientist should be curious, imaginative, motivated, show attention to detail and be a problem solver.

The science department at CSG aims to develop all these skills to produce well rounded young scientists.

# Science at CSG

## Year 7

- Introduction to science
- Particles
- Elements and Compounds
- Chemical reactions
- Cells
- Reproduction
- Body systems
- Forces
- Waves
- Energy

## Year 8

- Reactions and reactivity
- Mixtures
- Climate change
- Health and lifestyle
- Life processes
- Adaptations and Inheritance
- Ecosystems
- Electricity
- Forces 2
- Magnetism
- Waves 2

## Year 9

In year 9, the students follow a bridging curriculum where we begin the transition to GCSE by forming links between KS3 content and GCSE content.

# As well as lessons ...

- **Lunchtime Science homework Club**
- **STEM days and visits**
- **Science shows**



**Science show at the Crick Institute**



**Visit to google HQ**



**STEM day in school**



**Talk by Helen Sharman, British astronaut**

# GCSE Science results 2019



## Combined Science

34% - Grade 9,9-7,7

86% - Grade 9,9-4,4

## National

7.8% - Grade 9-7

55.9% - Grade 9-4

## Biology

92% - Grade 9,9-7,7

100% - Grade 9,9-4,4

## National

42.4% - Grade 9-7

89.7% - Grade 9-4

## Chemistry

92% - Grade 9,9-7,7

100% - Grade 9,9-4,4

## National

44.1% - Grade 9-7

90.1% - Grade 9-4

## Physics

92% - Grade 9,9-7,7

100% - Grade 9,9-4,4

## National

44.0% - Grade 9-7

90.9% - Grade 9-4

# GCSE Science results 2020



## Combined Science

39% - Grade 9,9-7,7

97% - Grade 9,9-4,4

## National

10.8% - Grade 9-7

64.7% - Grade 9-4

## Biology

96% - Grade 9,9-7,7

100% - Grade 9,9-4,4

## National

52.7% - Grade 9-7

94.6% - Grade 9-4

## Chemistry

90% - Grade 9,9-7,7

100% - Grade 9,9-4,4

## National

53.3% - Grade 9-7

95.7% - Grade 9-4

## Physics

93% - Grade 9,9-7,7

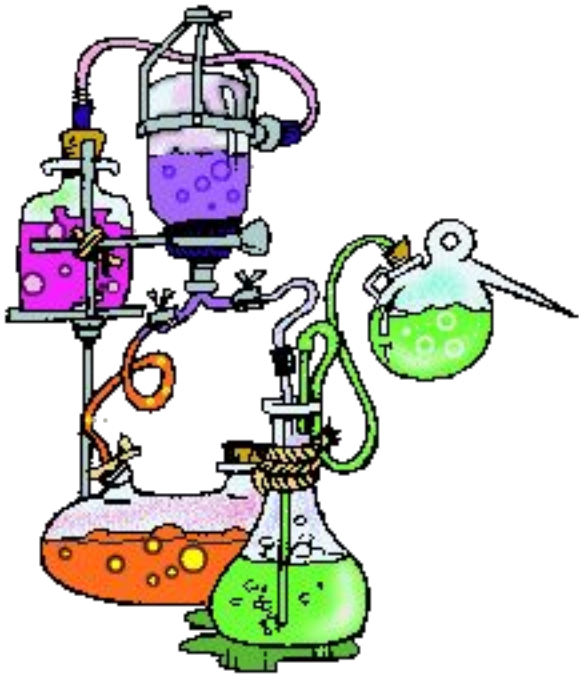
100% - Grade 9,9-4,4

## National

53.1% - Grade 9-7

96.2% - Grade 9-4

# Science lessons in Y7



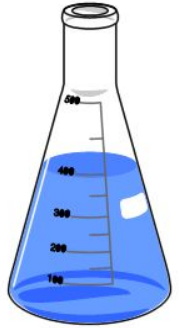
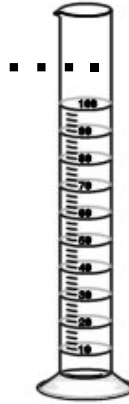
# What topics will we study?

As well as biology, chemistry and physics topics, the first topic you will study will be:

## **INTRODUCTION TO SCIENCE**

In this topic you will learn how to work and think scientifically. You will learn the names of different bits of equipment and how to handle them safely.

# Here is some of the equipment you will be using



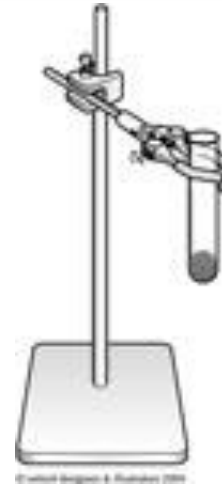
Test tube

Bunsen  
Burner

Measuring  
cylinder

Beaker

Conical  
flask



Thermometer

Filter  
funnel

Dropper

Clamp and  
stand



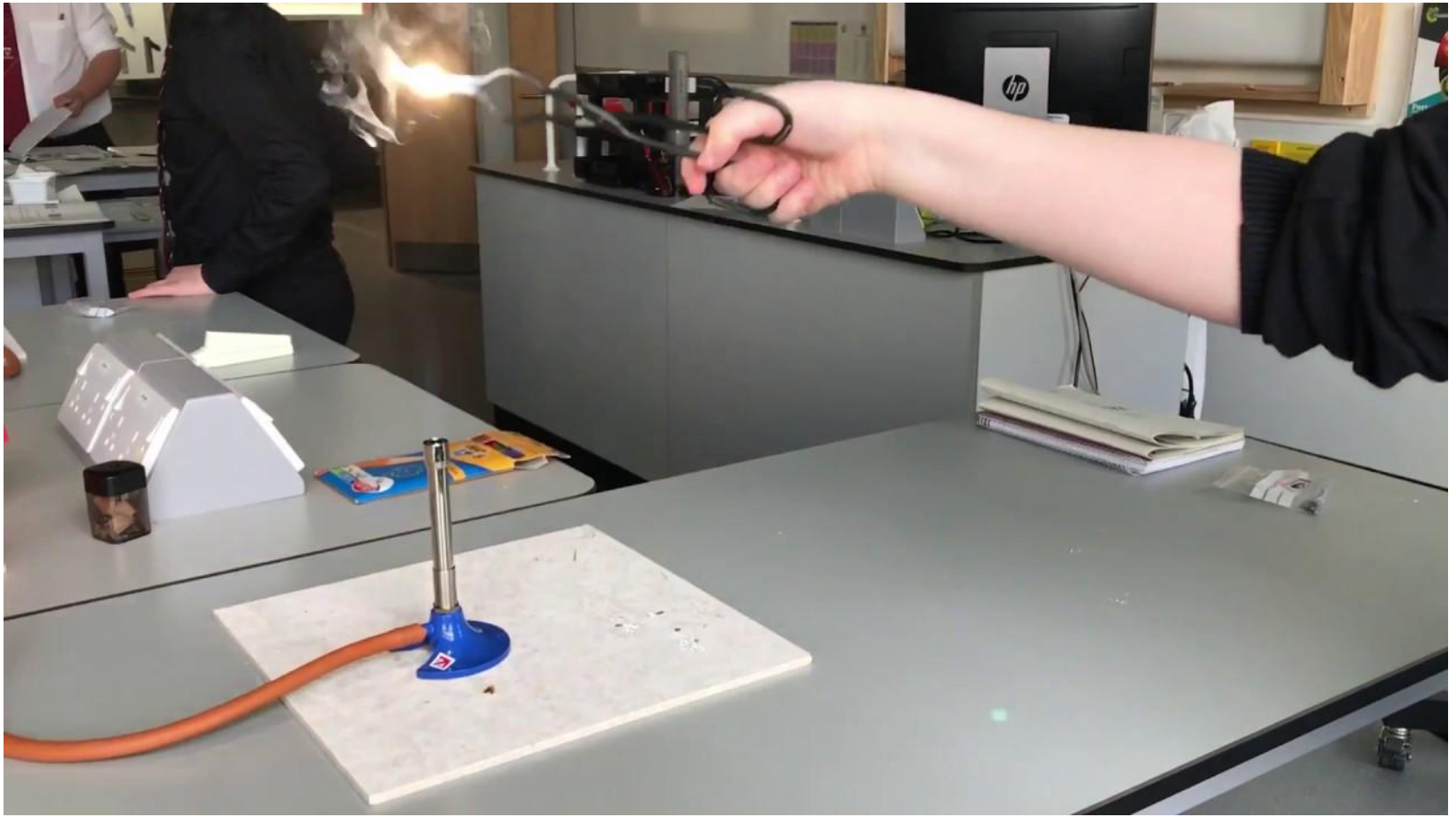
# Practicals

We do lots of practicals in Y7

We have 9 science labs and you will learn where everything goes in the lab so you can collect and put away your equipment.

Here are some of the practicals  
you will carry out in Y7

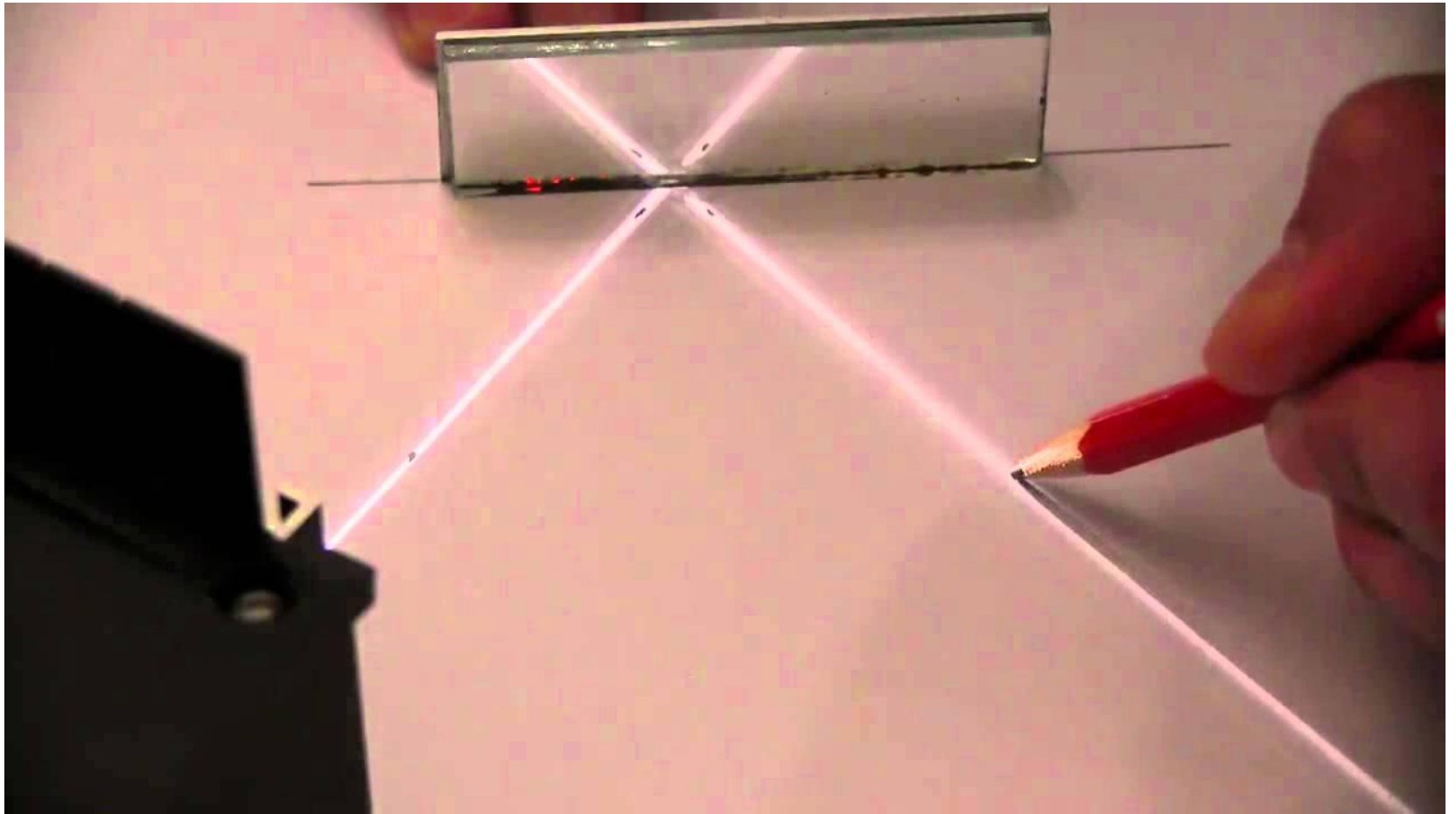
# Burning magnesium



# Testing acids and alkalis



# Reflection from a mirror



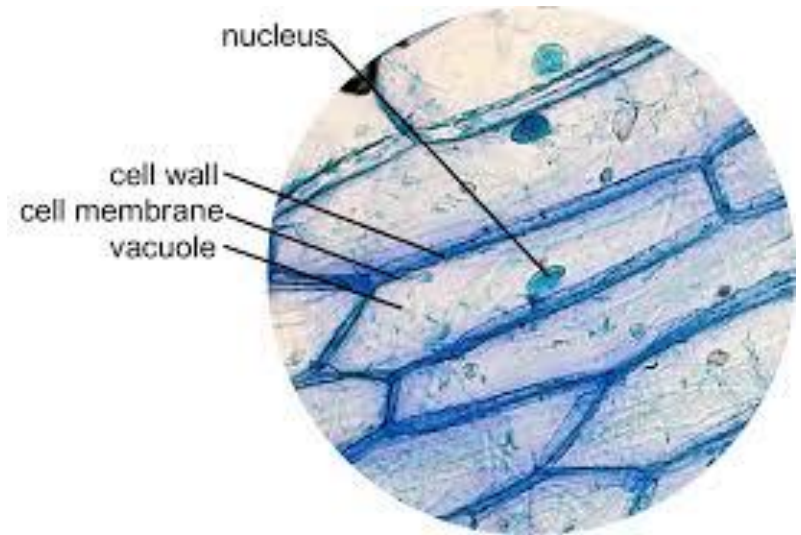
# Energy Circus Fun Practical



# Making a model cell



# Using a microscope



Onion cells

