

Here is a list of the exciting topics you will be learning about when you join us in September!

 Space

 Cells

 Ecosystems

 Sound
Forces



Skeletal and muscle systems



 Particles

Photosynthesis

Reproduction 

Investigating science



To help you prepare for exciting practicals at Park Hall Academy have a go at matching the science equipment to its correct name. Do you know what we might use them for?

Filter funnel

Bunsen burner

Thermometer

Test tube

Measuring cylinder

Beaker

① _____

② _____

③ _____

④ _____

⑤ _____

⑥ _____

The Science department are looking forward to meeting you when you start in September. Have a great summer and don't forget to bring this booklet with you.



SUMMER

SCIENCE ACTIVITIES !

Some fun activities for you to enjoy through the summer.

Hello !

We have put together a few activities for you to try during the summer, before you start your new year with us at Park Hall Academy.



PARK HALL ACADEMY

We would love to see this booklet when you join us in September !



Bronze



WORDSEARCH

K B P D R F V I Q O X W C O B
 F O N S N O T W E N Z E O N F
 Z O X U O S C H Y J W I M T W
 P K T I N E T Z Q L L O P F R
 R E F L E C T I O N P E O I R
 W E L X X W M Y G K O C U Z X
 Y H L I C H F K I E L O N F X
 N E N E P T U N E J L S D U S
 Q U L D M P R J N C I Y K Z P
 A L S H T E C E Q W N S M L A
 A F G C R U N Y Y N A T M Y C
 P P N A A H O T Q G T E G S E
 N R E Q E U O N O I O M T C Y
 C Q U V H U M P H D R I A P H
 M B E E Y N H D O K L N B V Q

HEART COMPOUND MOON SUN NEPTUNE REFLECTION
 ELEMENT NEWTON POLLINATOR ECOSYSTEM SPACE

Silver



Can you find out what 2 of these words mean ?

- _____
- _____

From the words below pick four groups that go together best. Use the words to fill in the table.

Bronze



Einstein Newton Neptune Carnivore Omnivore
 Producer Jupiter Herbivore Franklin Darwin
 Saturn Venus

Group names

go here ↓

Tree	Beech	Oak	Birch	Maple
Scientists				

Silver



What does a carnivore eat ?

Rosalind Franklin was a scientist who helped to discover the structure of DNA over 70 years ago!



Gold



Can you find an example of

... a herbivore _____

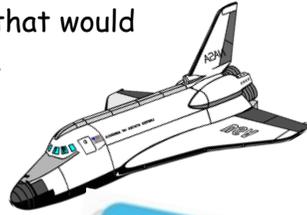
... an omnivore _____

DNA is a special chemical in your cells that makes you unique!

Bronze



You are far from Earth on a space mission to find a new planet to live on. Can you design a planet that would provide everything you needed to survive.



Label your drawing to show what you need to survive.

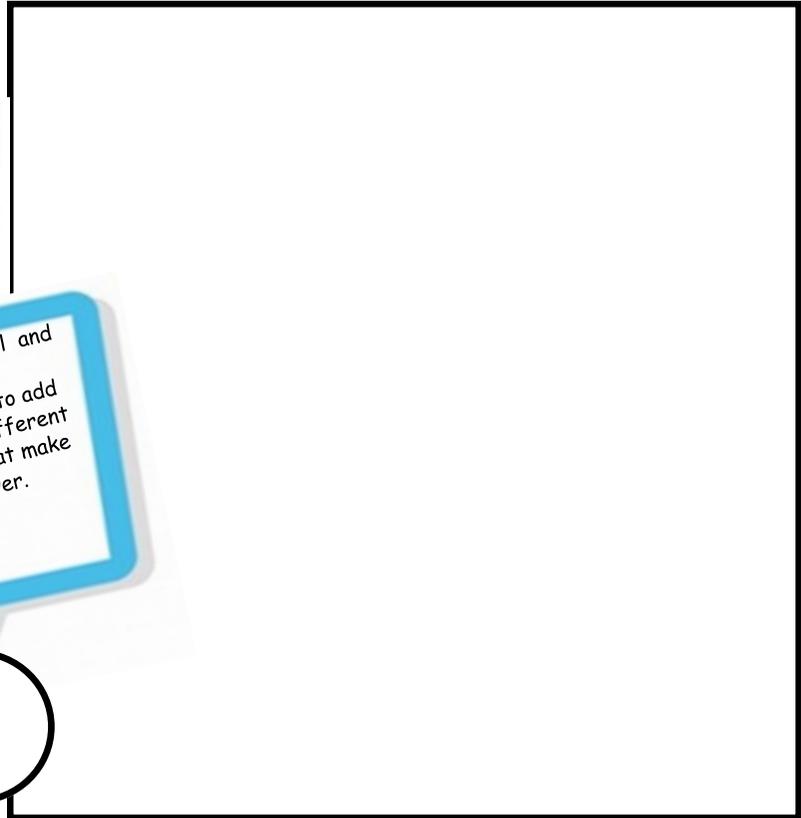
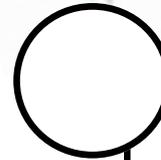
Bronze



Find a flower in your garden and draw it.



Use a pencil and look really carefully to add up the different parts that make the flower.



Don't forget to think about MRS GREN

Silver



How many planets there are in our solar system ?

Can you put them in order?

Silver



What do flowers need to grow healthier ?

Gold



Can you find out how a spacesuit helps you to survive in space.



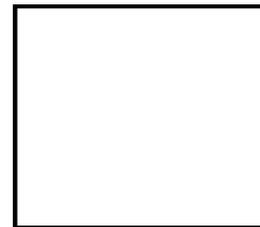
Gold



Try pressing some flowers.

Put them between kitchen paper in a heavy book.

Stick one in here



Most plants grow from seeds. Each seed needs the right conditions before it can start to grow into a plant.



Germination is the scientific word for seeds starting to grow.

Bronze



It's summer party time...!

Use the table above to answer the following questions about Sarah's party



Friends	Types of food			
	Sandwiches	Crisps	Cake	Grapes
Sarah	✓	✓	✓	✓
John		✓		✓
Mohammed		✓	✓	
Esha	✓		✓	✓
David		✓	✓	



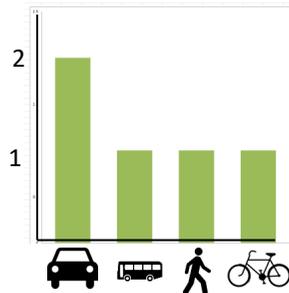
- 1) What were the most popular foods at the party? _____
- 2) Which of the guests didn't like grapes? _____
- 3) Which of the guests like crisps and cake? _____

Silver



Use the text and pie chart below to find out how the friends travelled to Sarah's party.

Sarah travelled with her parents to the party. On their way they picked up Mohammed. It was a beautiful day so John cycled to the party whereas Esha, decided to walk. David was running late so jumped on the bus.



- 1) How did Esha travel to the party?

- 2) How many students travelled by car?

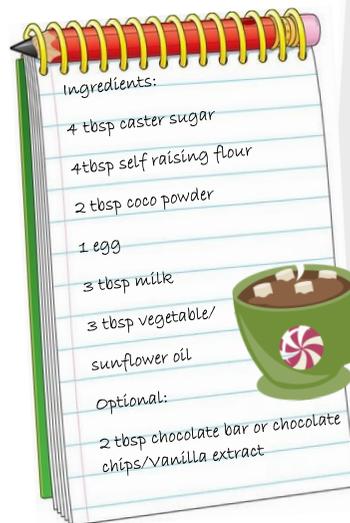
- 3) What was the most popular mode of transport?



Gold



Now try to make a mug cake!



1. Use the largest mug you have to prevent any of the ingredients spilling.
2. Add the flour, sugar and cocoa powder to the mug and mix.
3. Whisk an egg with a fork and add to the mixture. Mix in as much as you can. Don't worry if there is any dry mix left.
4. Add all the other ingredients apart from the chocolate chips and mix together until smooth.
5. Add the chocolate chips and any extra ingredients (nuts/raisins).
6. Place your mug in the centre of a microwave oven and cook at a high temperature for 4-5 minutes.
7. When your cake has stopped rising remove from the microwave. Make sure to let it cool down first!!

- 1) Look at the ingredients, can you list the solids and liquids.

- 2) How did the mixture change after you cooked it in the microwave?

- 3) Can you list any dangers you need to be aware of?

