

LEARNING

Adventurously

MOUNTS BAY



**Welcome to
Mounts Bay
Academy,
where we see
learning as one
of life's greatest
adventures.**

Join us as we push boundaries and blaze trails to create a bold learning environment that buzzes with energy and creativity; where we nurture curiosity and inspire our students to become ambitious, passionate and principled people.

Embark on a journey of new beginnings and endless possibilities, where the rigid schooling models of the past are giving way to an exploration of 21st-century living and learning.

Sara Davey, Principal



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Embark on a journey of new

An adventurous prospectus

We wanted to give you a real sense of the vibrant community we have here at Mounts Bay, so we got our students involved in creating this prospectus.

From artwork and equations to opinions and personal thoughts, we've gathered the work and wonderings of our students to give you a glimpse of Academy life.

Find out what it's like to be a part of our community from the students themselves.



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LEARNING

LEARNING

Ambitiously



Everyone has the potential to **achieve** great things. It's our task to **inspire** our students and provide them with the opportunities to **succeed**.

With a vibrant and innovative learning environment, and a wealth of connections and programmes designed to foster talent, we help each of our students find their path and give them the support they need to pursue it.

While discovering and developing each student's strengths, we also make sure that all are fully equipped with the skills they need, and the drive and confidence to take control of their futures.

Ambitiously

When I grow up I would like to be a photographer

I would like to set up my own business

Aljie Major

Interior designer

Isabelle Markham

I would like to become an architect.

Toby Armstrong

FORENSIC SCIENTIST

Lilyjane Roderick

When I'm older, I want to be a psychologist and study behaviour.

- India Wright.

Marine Engineer

Lloyd Williams.

I want to be a tennis coach accompanied by a sports physiotherapist.

Elyn Calveley



For adventure learning week, our year 10s went on work experience across the country, including at St Ives Archive (below) and Ar-Lyn Residential Home (left).



At Nixon I have learned about indesign and photoshop, and helped with the Mba prospectus. It felt very good working in the Nixon studio,

busy week learning

Personalised learning plans

using illustrator logo.

ch / Pablo

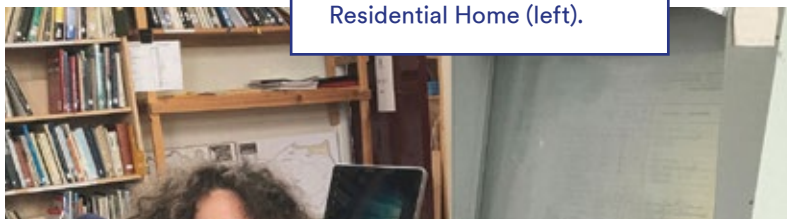


Everyone is unique. We all have our talents and places to improve, and we all learn in different ways, at different speeds. That's why we work with each of our students to create a personalised learning plan, so that they can learn in the way that's right for them and achieve their full potential.

Twice a year we hold a conference where students meet with staff to discuss their results, their progress and any areas for improvement. Together we develop personal targets for them to aim for. By involving students in setting themselves realistic yet challenging goals, we motivate them to push themselves and take pride in their achievements.



For adventure learning week, our year 10s went on work experience across the country, including at St Ives Archive (below) and Ar-Lyn Residential Home (left).



Real-world opportunities

Secondary school is the stepping-stone from childhood to adult life. To equip our students with real-world knowledge,

we seek out enriching opportunities for them, such as bursaries, scholarships and work experience placements.



“Working at Nixon has been a real pleasure. I had the experience of seeing what a design agency does. It has been a very busy week learning lots of new things. I have learned about InDesign and Photoshop, design and advertising, and helped with the school prospectus.”

Pablo, year 10, spent a week as a graphic designer with creative agency Nixon Design.

At Nixon I have learned about indesign and photoshop, and helped with the Mba prospectus. It felt very good working in the Nixon studio, I feel that it has been a very busy week learning lots of new stuff.

The best thing I have learnt is using illustrator and making the typography and logo.

Thank you very much / Pablo
for letting me have a unique experience
To the NIXON team



During work experience as a graphic designer, Pablo experimented with typography in Adobe Illustrator.



The school jazz band plays a concert on the main hall stage.

Nurturing talent

We're dedicated to helping all of our students reach their full potential, including providing advanced routes for exceptional students. That's why we have high performance institutes (HPIs) in English, maths, science, sport and the arts. Guest speakers, such as authors and mathematicians, inspire our students, while extra sessions allow talented children to hone their skills and even earn additional qualifications.

We also arrange trips and activities, ranging from writing and code breaking competitions to science festivals and gallery visits.

Over the years we've developed relationships with professional sporting bodies, such as the Cornish Pirates Rugby Club and Global Boarders Surf Club. For promising athletes we provide additional coaching, conditioning and skills workshops, as well as mentoring to help them balance their sporting aspirations with academic study.



The school jazz band plays a concert on the main hall stage.

Prestigious alumni

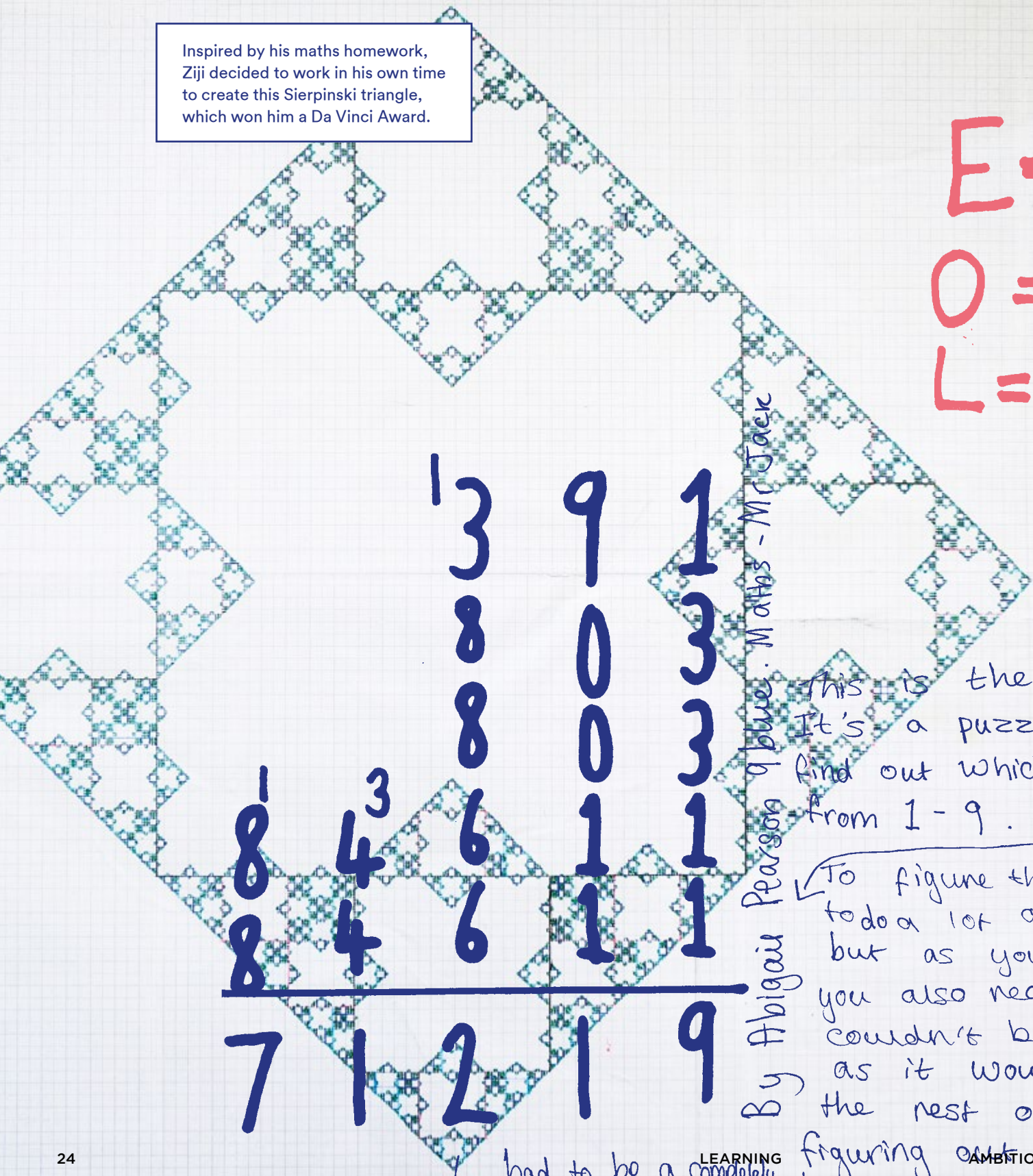


From studying a master's degree in engineering at Oxford University to competing worldwide as a professional snowboarder, our students go on to achieve great things. We do everything we can to help them raise and realise their aspirations, whatever their area of interest, and our alumni's successes continue to inspire the school.

Zoe Robinson, Doctor
After leaving Mounts Bay in 2007, Zoe went on to study the International Baccalaureate at Truro College before reading medicine at Imperial College London. She graduated in 2016 and currently works as a doctor in West Middlesex Hospital in London.



Inspired by his maths homework, Ziji decided to work in his own time to create this Sierpinski triangle, which won him a Da Vinci Award.



E=1 N=9 T=8 H=4
O=3 W=0 R=6 V=2
L=7
Solution.
numbers & Letters

This work by Abigail Pearson shows how she worked out a tough mathematical puzzle.

1 3 9 1
8 8 0 3
8 4 6 1 1
8 4 6 1 1
7 1 2 1 9

Abigail Pearson 9blue Maths - Mr Jack

This is the original problem. It's a puzzle where you have to find out which letter is each number from 1-9. This was the solution.

To figure this puzzle out, you had to do a lot of trial and improvement; but as you work along the puzzle you also realise some letters couldn't be certain numbers as it wouldn't work for the rest of the addition. So

ONE
TWO
TWO
THREE
THREE
ELEVEN

had to be a completely LEARNING figuring out these clues as you go along also AMBITIOUSLY helps. This problem is also very clever as the words

Interview with Abby Jose - Athlete

What inspired you to get involved with sport?

The Olympics

Who do you admire the most, who do you look up to and why?

Jessica Ennis-Hill because she is awesome.

Do you think it is good to fail before you succeed?

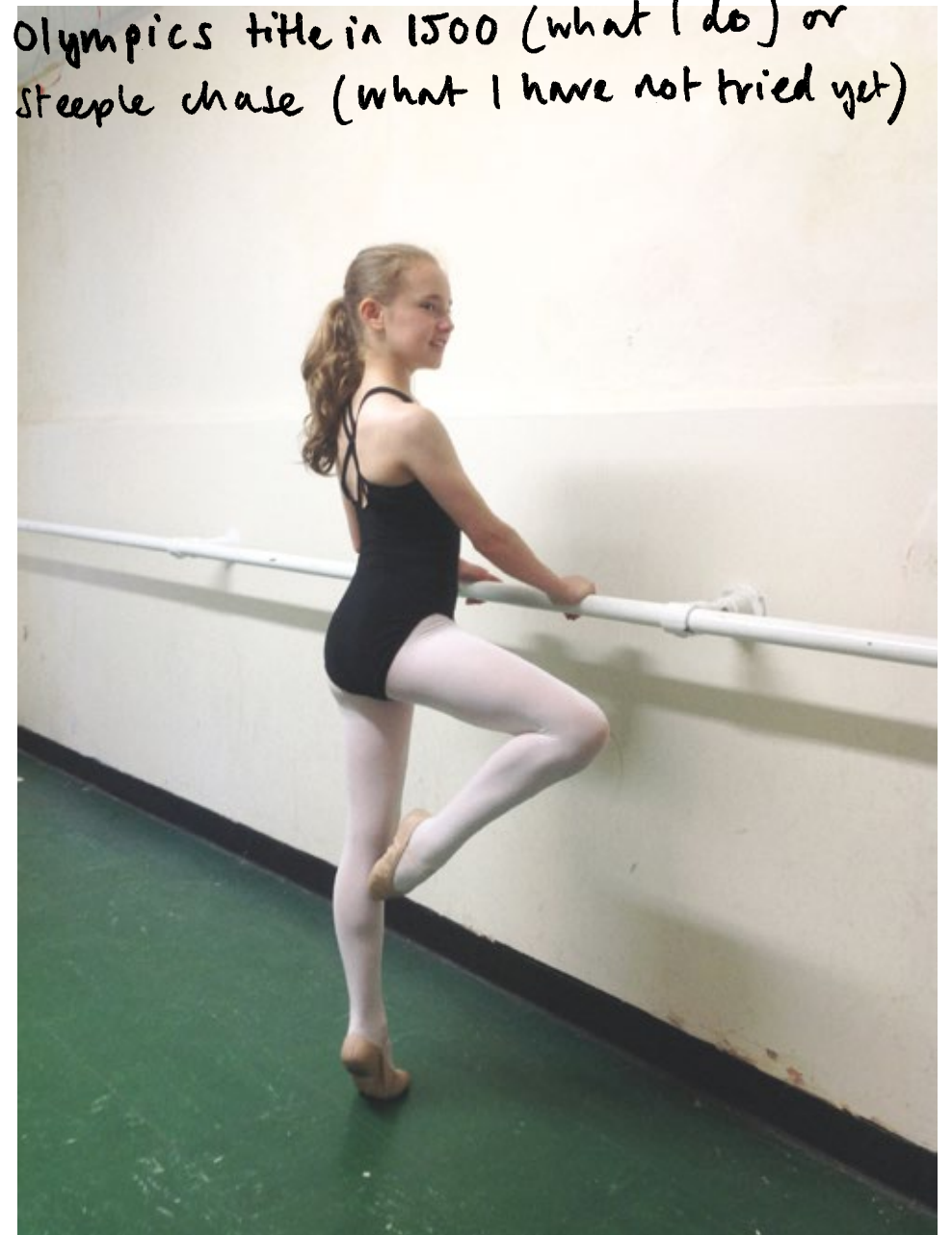
Yeah, because you know what you have done wrong and make your performance better for next time.

How does Mounts Bay help you excel in sport? How many opportunities does the academy offer?

HPI Sports programme and Mr Eddy is very good. Also lots of ~~clubs~~ clubs. Chances to compete for the school.

Where would you like to be in 10 years time?

Olympics title in 1500 (what I do) or steeple chase (what I have not tried yet)



By Lilia Rowe

Year 7 students put the final decorative touches on their water-propelled rocket.

We made the rocket by adding fins and fins to the bottom of the bottle. The pressure of the water building up shoots the rocket into the air. Using pieces of A4 cardboard, we attached fins to allow our rocket an elongated period of time in the air. We also added a pointed cone onto the top so it would be more aerodynamic.





During sports day at Mounts Bay, houses compete in a wide range of sporting activities.



LEARNING

Passionately

To help a student realise their ambitions takes **dedication**. All of us here at Mounts Bay are **committed** to helping each student pursue their **passion**.

Children need a rich and diverse environment in which to flourish, and we're dedicated to providing our students with rewarding learning experiences both within and beyond the classroom.

Our teachers are experts in their fields with a real love for the subjects they teach, and we continue to invest in the best resources and facilities for our students. We also bring in specialists to improve our clubs and societies, and work with others in the community to improve all education in the local area.

Passionately



Students compete in a fierce tug of war on sports day.



Here are some of the facilities at Mounts Bay, from our innovative Qube building (above) to the news room and science laboratories.



Investing in our students

With access to state-of-the-art facilities and technology, our students feel inspired to push the boundaries of their subjects. We're committed to investing in their futures, making sure they always have the best resources at their fingertips. Recently, we've expanded our sports facilities, opened the Compass support centre, involved the students in redesigning the bathrooms and invested £1.4 million in our new science laboratories.

Our facilities:

- **photography darkroom;**
- **six new science laboratories;**
- **newsroom with green screen;**
- **recording studio;**
- **sports centre and AstroTurf pitches;**
- **drama hall and performance spaces;**
- **Compass support and wellbeing centre.**





Here are some of the facilities at Mounts Bay, from our innovative Qube building (above) to the news room and science laboratories.



Clubs and societies

There are over 100 extracurricular clubs and societies to choose from here at Mounts Bay. From Latin to lighting and sound, these activities allow students to pursue their passions, try new things and get involved in the Mounts Bay community.

“I enjoy Radio Club because it’s a really good experience for me to develop my skills as a presenter. I get to work with great teachers like Miss Fisher and Mr Bird, and I’ve been given my own radio show, which is really fun to record and plan.”

Tegan Philips, year 9



I like reading because it provides the basis of my ideas, and builds my imagination.

The last great book I read was Catch 22 because it gave me a new insight in to comedy through war.

My favourite book is Frankenstein because it is deep and philosophical, and not just a fantasy world with no relevance

Wilbur Stude

I am passionate about books because ever since I was little I have always been creating stories in my mind and books have fuelled my imagination. I love reading because it can take you into a different world and open your eyes to issues. My favourite book is Uzumaki by Junji Ito because of the effective way he uses psychological horror to make the reader scared of something as simple as a spiral. My favourite series of books is the Deadman Wonderland series. This is because of the bizarre and imaginative concepts it creates. My favourite author is Junji Ito, the author of Uzumaki and The Dissolving Classroom. Books are brilliant and I wouldn't be myself without them. By Talulah Renshall Years 8



All of us here at Mounts Bay are passionate about teaching and supporting our students.

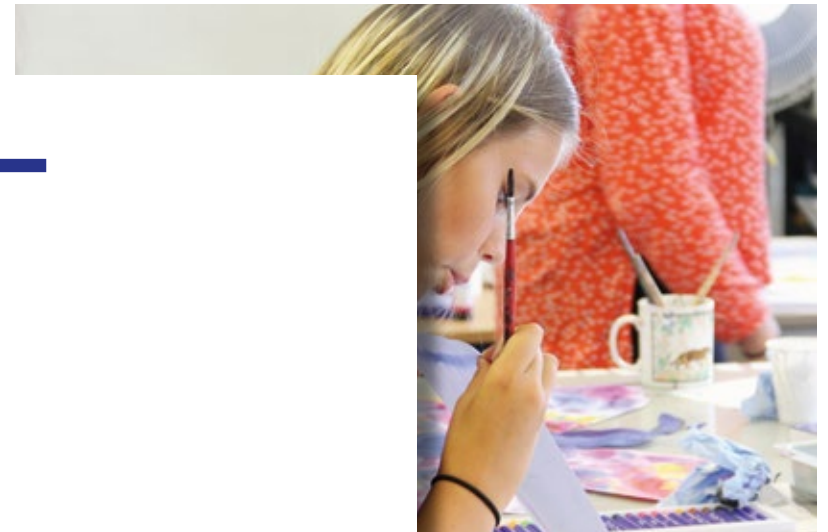


Passionate teachers

A school is only as good as its teachers, and our teaching team is comprised of passionate experts and innovators. Each teacher has a deep love for their subject, and they want to share their enthusiasm with their students.

Mrs Leanne Marsden,
English Teacher

“English was always my favourite subject at school. I think English gives students so many opportunities: the opportunities to read great stories, create their own, visit the theatre to see plays, discuss their own feelings, empathise with characters and discuss topical issues.”



The Qube (left) is an indoor space with sprung flooring and can be opened out to become an indoor/outdoor stage.



Community spirit

All of us here at Mounts Bay Academy are passionate about learning and supporting our community.



Schools have always played an important role in the community, and we're proud to support local children's projects, charities and other initiatives around Penwith and Cornwall. Many of our teachers are actively involved in the community outside of school hours, and we open our fantastic facilities to other local schools and clubs.

Mr Lawrence is our Football Development Manager, organising sporting activities for our students as well as the wider community. He visits local primary and secondary schools to run lessons and events, as well as teaching coaching courses here at Mounts Bay.



The Qube (left) is an indoor space with sprung flooring and can be opened out to become an indoor/outdoor stage.

This epic poem inspired by Beowulf was written by Katie and earned her a Da Vinci Award for excellence.

EPIC POEM - Rosa the bear-slayer!

Back when the world was young, a great hero ruled what we now call
~~England. No Lapland~~

He was know as Amazing ~~Archibald~~ Adventurous Archibald,
terror of the seas and ~~was~~ feared by any who crossed his path.

Back in his country, known as ~~snowland~~ snow-land, he was a hero to all,
and an enemy to none.

That is, but hidden away in the monstrous, murderous mountains lay a bear.
Over time he had come to hate Archibald - for Archie was annoyingly perfect.
Bodil (for that was the bear's name) watch down upon Archibald's people and started to
devise a devilish plan.

He would do simply anything to get rid of Archie - he hated the fact that Archie was
better, more handsome and more loved by the people than he was!

But how would he do-away with the horrific hero?

Bodil decided to sent big boulders tumbling down toward's the snow-dweller's village.

Their houses were built of ice and carved into the mountains down below the dragon's lair.

So one day, Bodil the bear pushed the loose boulders with all his might,

and they went tumbling, tumbling, tumbling...

bashing straight into the snow-dweller's ~~best~~ igloo-ice-houses

The people screamed and shouted as ^{ice-houses} igloos shattered around them.

One ~~was~~ lucky enough not to be caught under collapsed ice-houses. ~~pushed~~ rushed to free people.

Carefully choosing his timing, Bodil pushed more and boulders.

They went tumbling, tumbling, tumbling

straight down onto the scared, small people.

The bear did a ~~fine~~ laugh and then retreated to ~~his~~ his cave.

Bodil thought that it would be the end of amazingly annoying Archibald, but ~~how wrong~~ ^{was} he

After treating the injured, Archibald and his remaining men and women gathered together in their great hall.

They wanted to avenge the bear and show him that he ^{hadn't} ~~wasn't~~ got the better of him.

So Archibald and three of the best warriors set off up the mountain to meet the bear.

In their hands they carried only their blood-shedders.

Slowly they crept up the mountain - trying their hardest not to be seen.

But the bear saw them and he waited, ready to fight.



Amber Symons performing her own music during sports day. Her album Kaleidoscopic Minds is available on Spotify, via the Academy's label, Qube Records.

Diverse learning

A broad and balanced curriculum is the base of a good education, enriched by a variety of learning experiences. We combine classic and forward-thinking approaches to develop students' traditional skills while preparing them for the future.

On top of the essentials, we also have a huge range of complementary trips, courses and qualifications to provide our students with an extraordinary learning experience.

"I like the diversity in the activities in lessons, there's always something new to catch your attention."

Sam Blades, year 8



Amber Symons performing her own music during sports day. Her album Kaleidoscopic Minds is available on Spotify, via the Academy's label, Qube Records.

Industry experts



To supplement our fantastic teaching team, we bring in industry experts and specialists, from astronomers and Russian-language teachers to qualified chefs. This means that whatever our students do, they'll be taught by the best, with learning experiences that break out beyond the classroom.

Mr Roberts is a songwriter with three albums that have made it into the European top 40 chart. In 2016 he helped us launch our own record label, Qube Records, giving students the opportunity to get signed and sell their songs worldwide.



Students carry out scientific fieldwork (above) as part of a STEM-based REAL Project (see page 71).



Students hone their skiing skills on an Academy trip to the Alps.

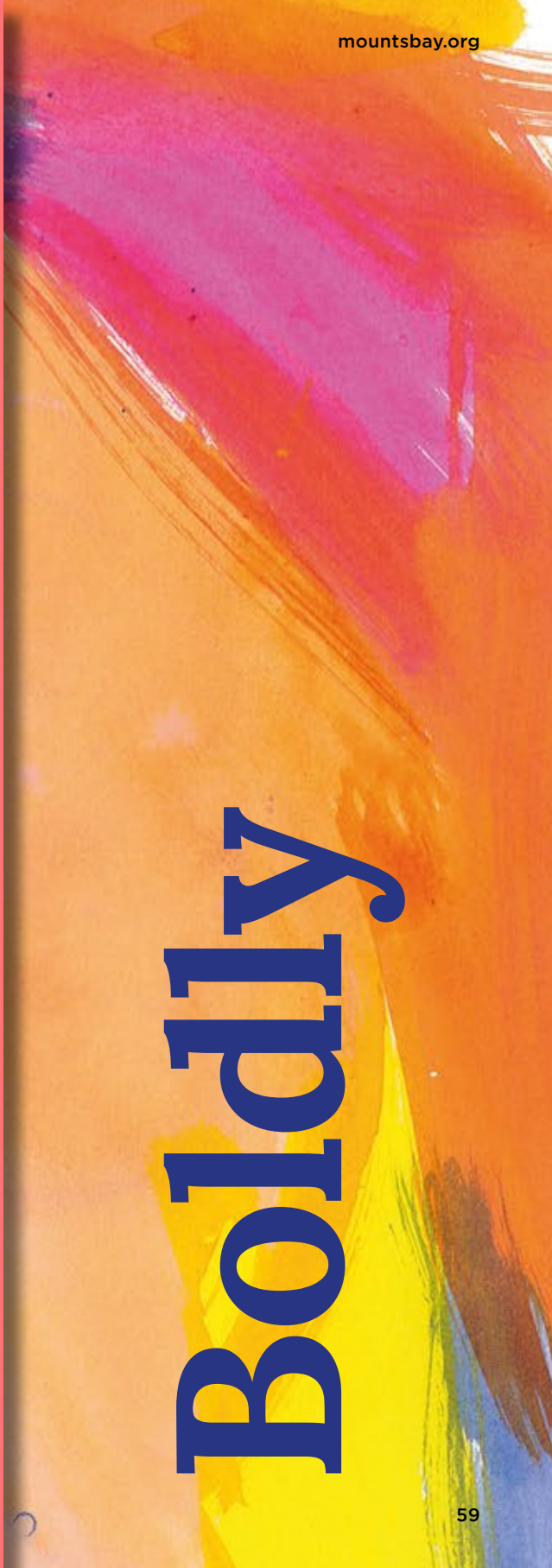




For adventure learning week students decorated the hall with a mural of an 'identity maze', depicting how everyone finds their own individual path in life.



LEARNING



Boldly

Learning takes place at the **edge** of the unknown, where students **discover** and experience **new** things.

The 21st century is one of worldwide connectivity, where opportunities abound for those with the confidence to seize them. From rigorous academic work to outdoor activities, we take an adventurous approach to education, inspiring students to push themselves and seek out new challenges.

Workshops, team projects and situational experiences give students the space to take the initiative and practise their leadership skills. We also help them to develop their character and the courage to speak up and challenge conventions.

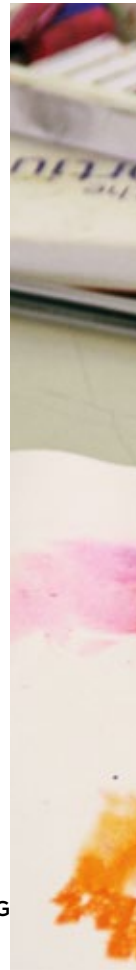
Boldly



Students get together and dress up for the Mazey Day parade to add a little colour to the community.



We encourage our students to become bold and colourful characters, unafraid to stand out and be themselves.



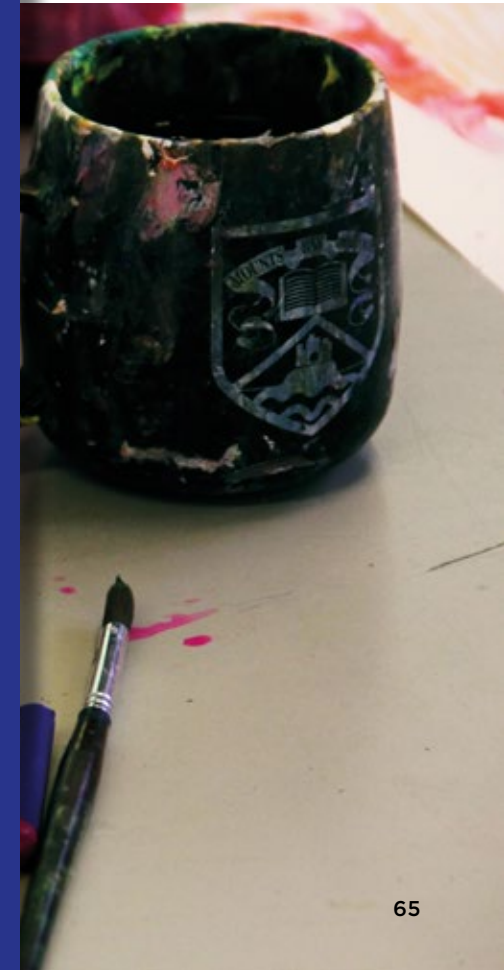
Outstanding

Since 2012, Ofsted have ranked us outstanding in every category, including the achievement, behaviour and safety of our students, the

quality of our teaching, and our leadership and management. We're one of only a handful of schools in the South West to achieve this.

Ofsted report, 2012

‘This is an outstanding school. It has a highly inclusive ethos and outstanding, mutually beneficial partnerships. The school’s specialism in sport and creativity is having a highly positive impact on attainment, as well as improving the health of students. Students’ spiritual, moral, social and cultural development is very strong’.





We encourage our students to become bold and colourful characters, unafraid to stand out and be



Learning worldwide

As an International School, we have links with schools around the world, from Uganda to the USA. These connections prepare and inspire our students to take their places in the global community of the 21st century.

Trips, exchanges and collaborative projects give our students the chance to explore and learn from different cultures, whether they're building a school in Nepal or cleaning a New Zealand beach. This global perspective plays a big part in the school ethos, encouraging students to think about their role in shaping the world.



BOLDLY

As a centre of excellence for computer science, as well as sport and creativity, we teach all our students how to write computer code and work with new technology.

```
import a2
import a4
import b6
a6=b6
import c8
a8=b8=c8
import c10
b10=c10
import c12
b12=c12
import c14
import time
class Menu():
```

```
    def __init__(self):
        master=tk.Tk()
        points=tk.Frame(master)
        label=tk.Label(points, text='Points')
        label.pack(side='top')
        for i in range(2, 16, 2):
            num=str(i) if i>9 else str(i)+' '
            label=tk.Button(points, text=num)
            label.pack(side='top')
        points.pack(side='left')
        for column in ['a', 'b', 'c']:
            group=tk.Frame(master)
            label=tk.Label(group, text='Group '+column.upper())
            label.pack(side='top')
            for row in range(2, 16, 2):
                name=column+str(row)
                name=name if len(name)==3 else name+' '
                try:
                    button=tk.Button(group, text=name,
                                     command=eval(name+'.main'), fg='blue')
                    button.pack(side='top')
                except NameError:
                    label=tk.Button(group, text=' '*6)
                    label.pack(side='top')
            group.pack(side='left')
        master.mainloop()
if __name__ == '__main__':
    menu=Menu()
```





Students use technology, such as iPads, to support traditional learning.

Navigating technology

We believe technology should be used as a tool to enrich real, tactile learning, not replace it. While students have access to state-of-the-art software and equipment, they rely on their own knowledge and abilities, with learning rooted in the real world.

By keeping an eye on the horizon, we stay up to date with current developments to prepare our students for the future. We're recognised by the Department for Education as a centre of excellence in computer science, and all of our students try their hands at writing computer code. This way, our students learn how to navigate technology yet rely on themselves.



Students use technology, such as iPads, to support traditional learning.

Building confidence

Experiences that are 'challenging enough' push students to stretch themselves and build confidence in their abilities. From academic assignments that are challenging yet achievable to sporting events, musical concerts and outdoor adventures, our students learn to believe in themselves and see obstacles as opportunities.

“My first real concert was with the school, at Penlee Gallery. I was really scared at first because I thought I was going to forget the lines, but it all went to plan and I really enjoyed it. I’ve played two proper concerts now and started playing the keyboard, and I don’t get nervous anymore.”

Beth, singer and keyboardist, year 7





With access to drama halls and stages, students develop the confidence to perform in front of a crowd.



National leaders



As a National Support School, we use our experience and expertise to raise the standards of education across the county and beyond. We work with local schools providing assistance, staff and other support they may need to improve the quality of education for their students.

We're also an initial teacher training provider, meaning that we're accredited by the National College for Teaching and Leadership to teach trainees and recommend them for qualified teacher status.

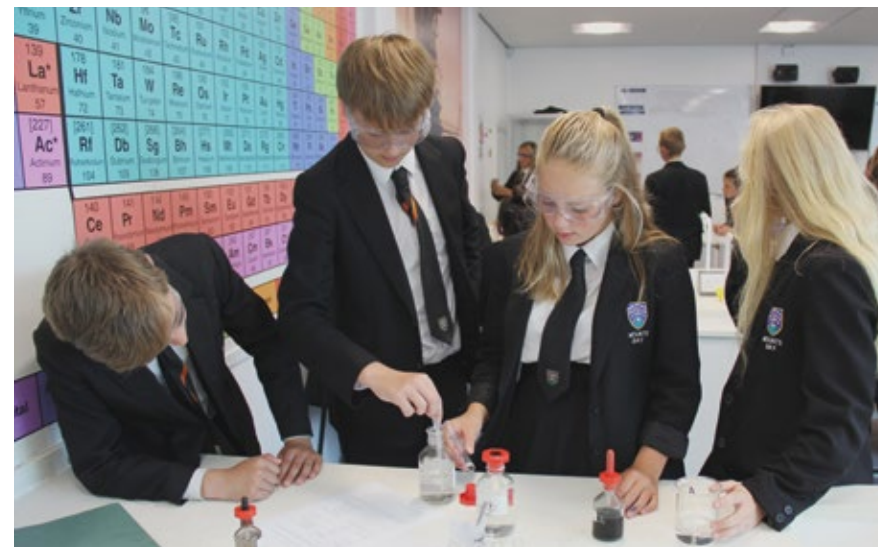


Innovators

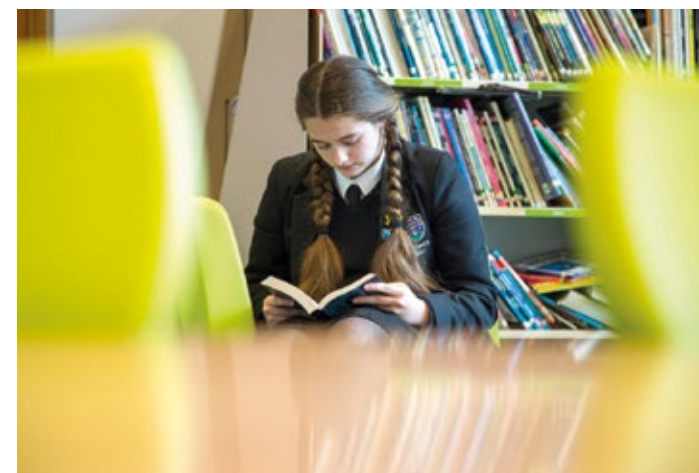


As a member of Leading Edge, we're part of a network of high-performance organisations transforming teaching and pioneering new approaches to education. We share our methods and techniques with educators across the UK to improve schooling countrywide.

We're also a member of Challenge Partners, a network that aims to raise the quality of education by collaborating and challenging one another to progress. Through peer reviews and sharing research and findings, we learn from our partners, so our students benefit from the combined wisdom of over 400 schools.



Whether we're training new teachers (top left) or exploring the core subjects, we always make learning exciting.



I like Mounts Bay because it's got lots of experiences such as drama shows, Dance and lots of clubs for all ages at Mounts Bay.

Drama is really fun my friends say im a good actor well thats what colleen says. I hope to become an actor ~~but~~ when im older.

Polly Rainbow

My favorite thing to learn in French is the different places in the town. Because they are really fun to learn, and once you know them, and you want to visit France, you will be able to find your way around, for example "ou e la de magasins?" where are the shops?

I also love learning the colours in French;

Blu ^{Rose}
~~Rose~~ Vert



The school jazz band performing live.

LEARNING

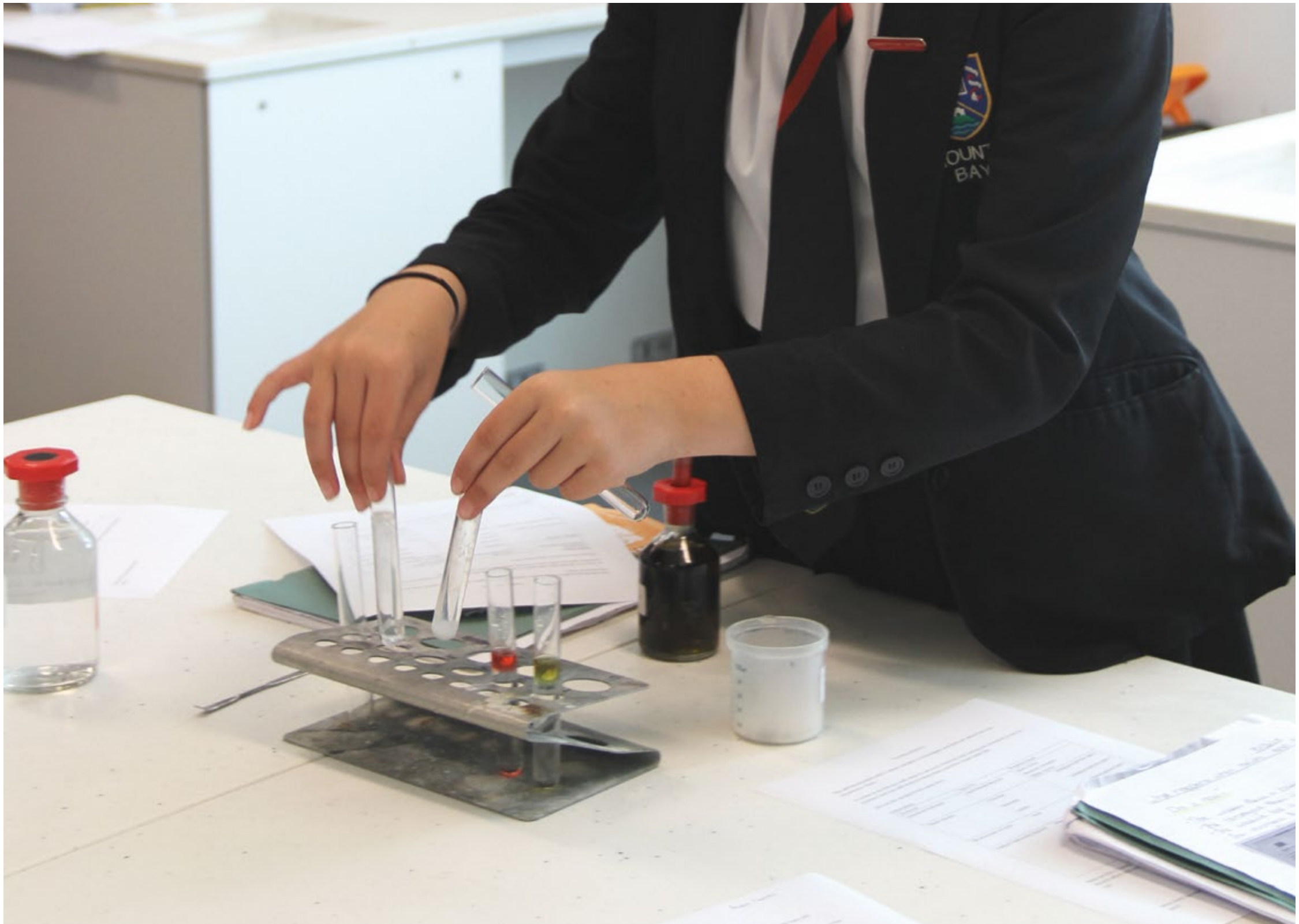
Inquisitively

Our goal at Mounts Bay is to spark **curiosity** in our students, urging them to always ask **questions** and open their eyes to the **wonders** of the world.

The rigid teaching structures of the past no longer reflect the world in which we live. Creativity, flexibility, intuition and innovation are the essential skills tomorrow's citizens need to keep ahead of the curve, and children should learn in a way that reflects this.

We encourage in our students a desire to examine, understand and shape the world, using new teaching methods specifically designed for the 21st century. In collaboration with leading educators worldwide, we've created a curriculum that engages children emotionally and allows them to draw from different subjects in order to solve problems.

Inquisitively



A student is close to making a scientific discovery...



Students use what they learn in the classroom to engineer practical projects.



The media team (left) uses journalism to investigate issues and express their opinions.

Adventure learning



As an Adventure Learning School, we believe that learning should take place in a colourful range of contexts, not just in the classroom, and that students should be challenged just enough so that education is exciting and satisfying.

We're always looking for new ways to get students enthused and excited about learning. Working alongside experts and institutions, such as Professor David Hopkins and the University of Exeter, as well as other leading schools across the globe, we develop innovative approaches to education.





Students use what they learn in the classroom to engage in practical projects.



The media team (left) uses journalism to investigate issues and express their opinions.



Deep learning philosophy

“Our T-structure approach to learning is about creating a strong, broad academic base for each student before drilling down into the ideas that really excite them. Immersive experiences, such as trips, team projects and other activities, give our students the chance to learn in new and engaging ways.”

Sara Davey, Principal



INQUISITIVELY

93



Da Vinci Award-winning photography work.



Our cooking classes (above) are taught by a qualified chef.



At Mounts Bay learning takes place in a variety of environments.



Student choice

Education shouldn't be a closed system – it should open exciting routes and inspire students to pursue them. We believe that children learn best when they're actively engaged with a task, making decisions and discovering ideas for themselves.

With nearly 50 GCSEs to choose from, plus optional qualifications such as AS levels and language courses, we provide our students with a wealth of possibilities. We also offer activity choices in compulsory lessons, encouraging each student to shape their learning trajectory and develop a sense of self-determination.





Our cooking classes (above) are taught by a qualified chef.



At Mounts Bay learning takes place in a variety of environments.

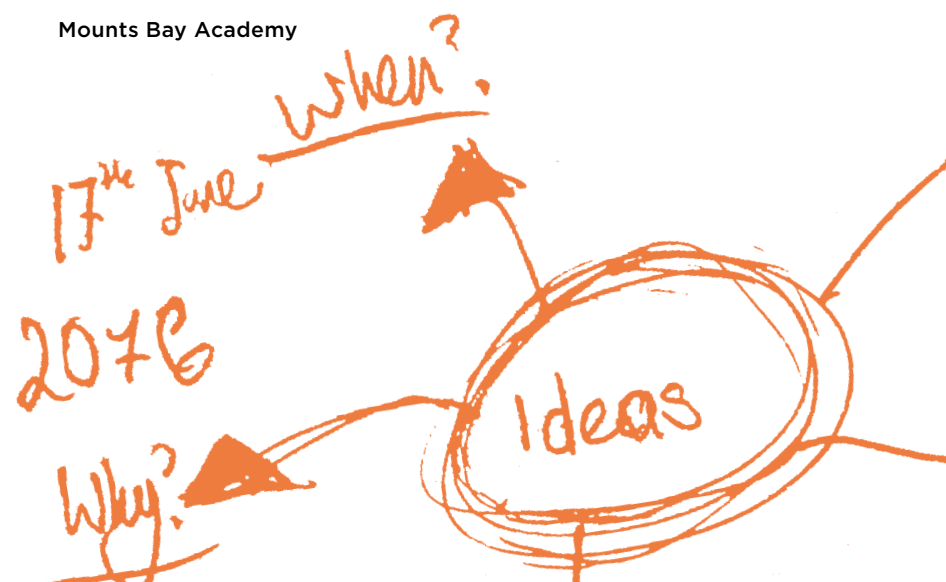


Beyond the classroom

From collecting scientific samples on the field and examining them back in the lab, to carrying out geographical surveys on-site, learning expeditions bridge the gap between the classroom and the real world.

During these expeditions, students have to solve problems and adapt to their environment, while working together effectively as a team. They also build an emotional bond with the ideas they explore, putting theory into practice and using practical knowledge to inform their academic study.





These year 7 students took a crash course in rocket science during adventure learning week.



An Underground World
 KATLEIGH PYFEE

Going deep deep down into the depths of the underground world, Taking a cage down to the level I am working at, Knowing the Knockers will be down there watching my every move.

The silence, broken only by water dripping, The heat and dirt making me tired, Longing to return home to a cooked meal.

It's lunch time, so I get my homemade Cornish Pendeen pasty out, But I must remember to leave the crust for the Knockers, Or they will curse me for life.

These knockers are thin, horrible creatures With hooked noses and hunch backs, Be good to them or else.

All of the men are working hard, Even though they are wet and tired, Tizzy and bad tempered as time passes.

Don't even get me started on the dynamite, Almost every hour the ground shakes because it (and trust me its scary).

It's finally time to go home and take the cage back up to the surface, You can hear the birds tweeting, You can smell the fresh air, And you can feel the breeze on your skin.

After a long day at work it's lovely to come home, Away from the machinery, The wetness, The dark, Loneliness on hold for another day.

I like real project because it lets you explore different aspects and features even some art, geography and loads more. I never really studied witchcraft but I got really into it and I was allowed to do witchcraft as the History of art.

This makes you learn a lot more things that you didn't know and you can explore to whatever standard you like.

For this REAL Project, students combined history, geography, art, photography, English and creative writing to make a book that captures the spirit of a place.

Connected learning



Pulling together the latest research in education and cognitive development, we've designed a connected learning approach for our students in years 7, 8 and 9. Each semester has a 'big idea' that drives learning – a conceptual theme that runs across all courses.

Though subjects remain rigorous and independent, the shared theme encourages students to make links between different topics and think about the bigger picture. This type of associative learning is proven to be effective, and teaches students how to transfer and combine knowledge across different disciplines.

We always have something fact that we have lect doesn't make me work harder. the most enjoyable about my own opinion. because it's unique and or working on.

-JJ





An Underground World
 KATLEICH PFEFFER
 Going deep deep down into the depths of the underground world, Taking a cage down to the level I am working at, Knowing the Knockers will be down there watching my every move.
 The silence, broken only by water dripping, The heat and dirt making me tired, Longing to return home to a cooked meal.
 It's lunch time, so I get my homemade Cornish Pendeen pasty out, But I must remember to leave the crust for the Knockers, Or they will curse me for life.
 These knockers are thin, horrible creatures With hooked noses and hunch backs, Be good to them or else.
 All of the men are working hard, Even though they are wet and tired, Teazy and bad tempered as time passes.
 Don't even get me started on the dynamite, Almost every hour the ground shakes because it (and trust me its scary).
 It's finally time to go home and take the cage back up to the surface, You can hear the birds tweeting, You can smell the fresh air, And you can feel the breeze on your skin.
 After a long day at work it's lovely to come home, Away from the machinery, The wetness, The dark, Loneliness on hold for another day.

I like real project because it lets you explore different aspects and features even some art, geography and loads more. I never really studied witchcraft but I got really into it and I was allowed to do witchcraft as the History of art.

This makes you learn a lot more things that you didn't know and you can explore to whatever standard you like.

😊 coleen puckey

For this REAL Project,

REAL Projects

Collaborating with High Tech High in San Diego, we design REAL (rigorous, engaging, authentic learning) Projects for our students. In these innovative cross-curriculum courses, students use academic research, strategy and creativity to design and deliver a real end product.

With a goal to work towards, and drawing from multiple disciplines, students learn in a way that reflects the real world. They get a chance to fully engage with what they're learning, while developing time management and teamwork skills, all in a fun and stimulating environment. REAL Projects also significantly raise the level of study, with students producing GCSE-level work as early as year 7.

I enjoy Real Project because we always have something to work for and aim for. The fact that we have a deadline to finish our project doesn't make me rush but makes me want to work harder. These type of lessons are the most enjoyable lessons because I'm writing about my own opinion. I enjoy Real Project a lot because it's unique and it's always a real thing your working on.

-JJ

The Baltic Wreck

KATHRYN JEWELL
 One stormy night, the wind was howling and dancing. There was a sudden scream needed help. Some fisherman heard the gling, the fisherman ran to the boats with The Crabber was struggling in the storm. They just managed to get to the rock, the three men and two women. The waves crashing against the rocks, would they n



The 8 multiplication table.

X	1	2	3	4	5	6	7	10
1	1	2	3	4	5	6	7	10
2	2	4	6	10	12	14	16	20
3	3	6	11	14	17	22	25	30
4	4	10	14	20	24	30	34	40
5	5	12	17	24	31	36	43	50
6	6	14	22	30	36	44	52	60
7	7	16	25	34	43	52	61	70
10	10	20	30	40	50	60	70	100

I think this would be better and easier because there is only 64 numbers to think about, in our number system - decimal we have to remember 100 numbers. In Octal $7 \times 3 = 25$!

Place Value

8^5	8^4	8^3	8^2	8^1	8^0
32	512	64	8	1	

Octal to decimal:
 $234 = 156$
 $6767 = 3575$
 $20000 = 65536$
 $65536 = 27486$
 $17 = 15$
 $20 = 16$
 $1000000 = 2642144$

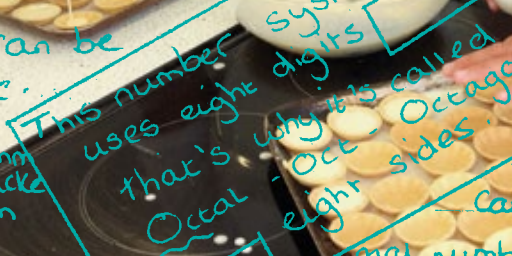
decimal to Octal:
 $1000000 = 364400$
 $96 = 140$
 $543 = 1037$
 $592 = 1120$
 $500 = 764$
 $123456789 = 726740$

Why do we use Octal?

Octal can be used like hexadecimal. It's more compact than binary. But octal is easy to translate to binary in your head. Octal gets used because it is the largest base that is a power of 2 for which you don't need any special characters - that means all digits can be numeric.

Conversion

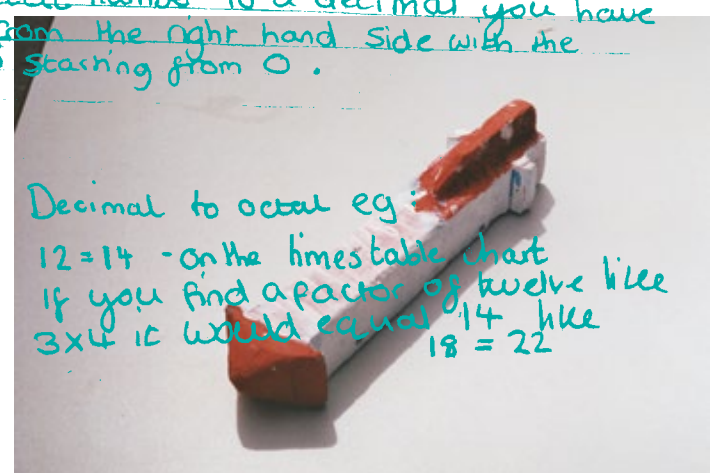
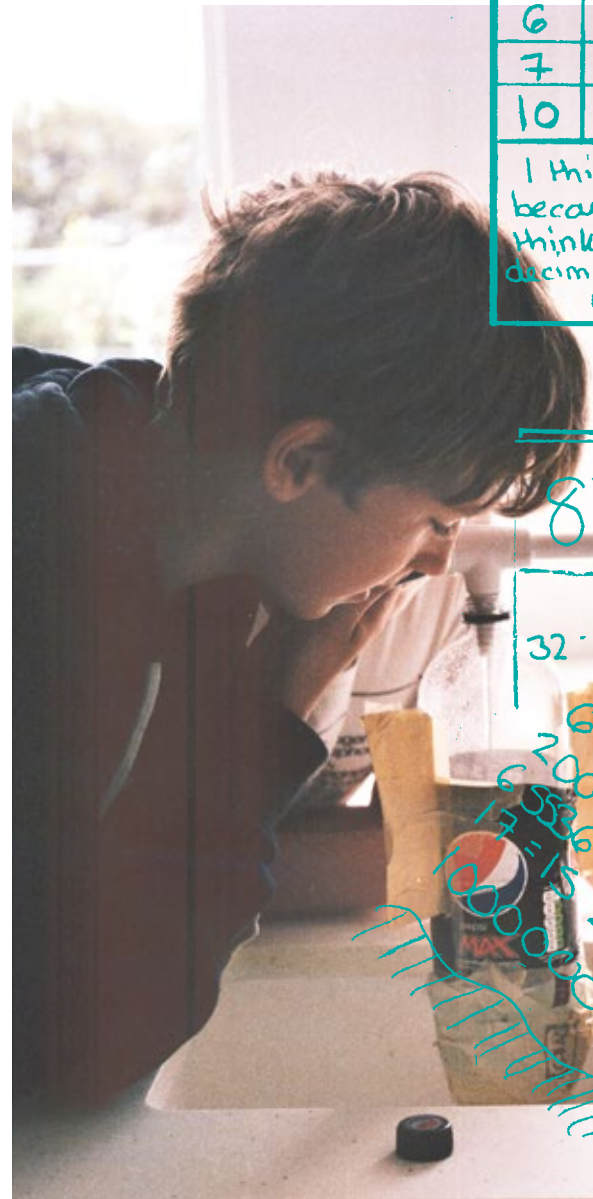
Decimal to Octal -
 Any decimal number can be converted into octal number system by dividing by the largest possible power of 8. The remainder then again divided by the largest possible power of 8, the method is carried on until the power of 8 is one and the remainder obtained is less than eight.



Octal to Decimal -
 Any octal number can be converted into a decimal number. This method is quite similar to the transformation from binary numbers to decimal numbers, the only difference is that the 2's in this case will be changed by 8 but the method's will stay the same. So if we want to change any Octal number to a decimal you have to multiply the digits from the right hand side with the starting from 0.

Decimal to octal eg:
 $12 = 14$ - on the times table chart
 If you find a factor of twelve like 3×4 it would equal 14 like $18 = 22$

For a maths project students explored different numeric systems.





Student Matt Thatcher shot the local landscape for an authentic National Geographic photography brief.



LEARNING

Ethnically



We **nurture** and care for each of our students, while providing them with the **guidance** to grow into conscientious and **principled** people.

From the dedicated support staff to the teachers, all of us at Mounts Bay care about the physical and emotional wellbeing of our students. Whether they need specific learning support or simply a space to reflect, we're always actively looking out for those who need our help.

By encouraging students to collaborate with one another and engage with ethical issues, we foster a positive culture of respect, responsibility and strong relationships. Our students are thoughtful and polite, yet unafraid to be themselves.

Ethically



Students take part in an Easter fundraising race for WaterAid.



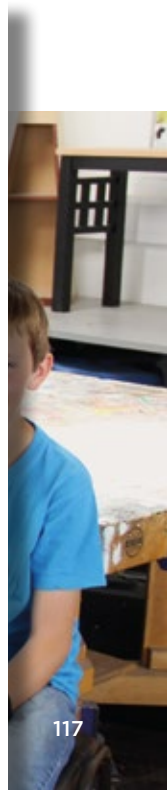
Students celebrate their excellent academic results (above).



A positive, inclusive environment

Children need a positive environment in which to learn, where they feel happy and supported by both their peers and by the school. We make sure that whatever a student's background, needs or ability, they'll be made to feel at home and given the care they need to flourish.

It's our ethos to foster a sense of community based around our shared values of respect, responsibility and strong relationships. This shines through in our students' excellent attendance and behaviour, and the way they carry themselves with confidence and courtesy.





Students celebrate their excellent academic results (above).



Student support

Our Compass provides a place for students to come for help, support and careers advice, as well as a space for study and quiet reflection. We listen and pay attention to our students, so they know they can come to us if there's anything they want to talk about.

Wheelchair users can access all of the school grounds, and we have tutors and resources in place to help any students with learning difficulties. We also work closely with other schools and institutions to give our students the best support and create exciting learning experiences.



Our attendance across the school is 95%, while positive behaviour is 99%.



And when you feel like you're
 not getting anywhere Just
 take a different ~~boat~~ road
 Cause I know yes I know
 there's always a better way
 to go but when you get there
 don't look back no don't
 look back. Cause I know
 there's always a better way
 to go.

F Dm G C
 E Em Am Am
 F F C C
 A F D G C

There's always a better
 way to go
 Just take a different
 road. But make sure to be safe
 your safe

Anna + Xena

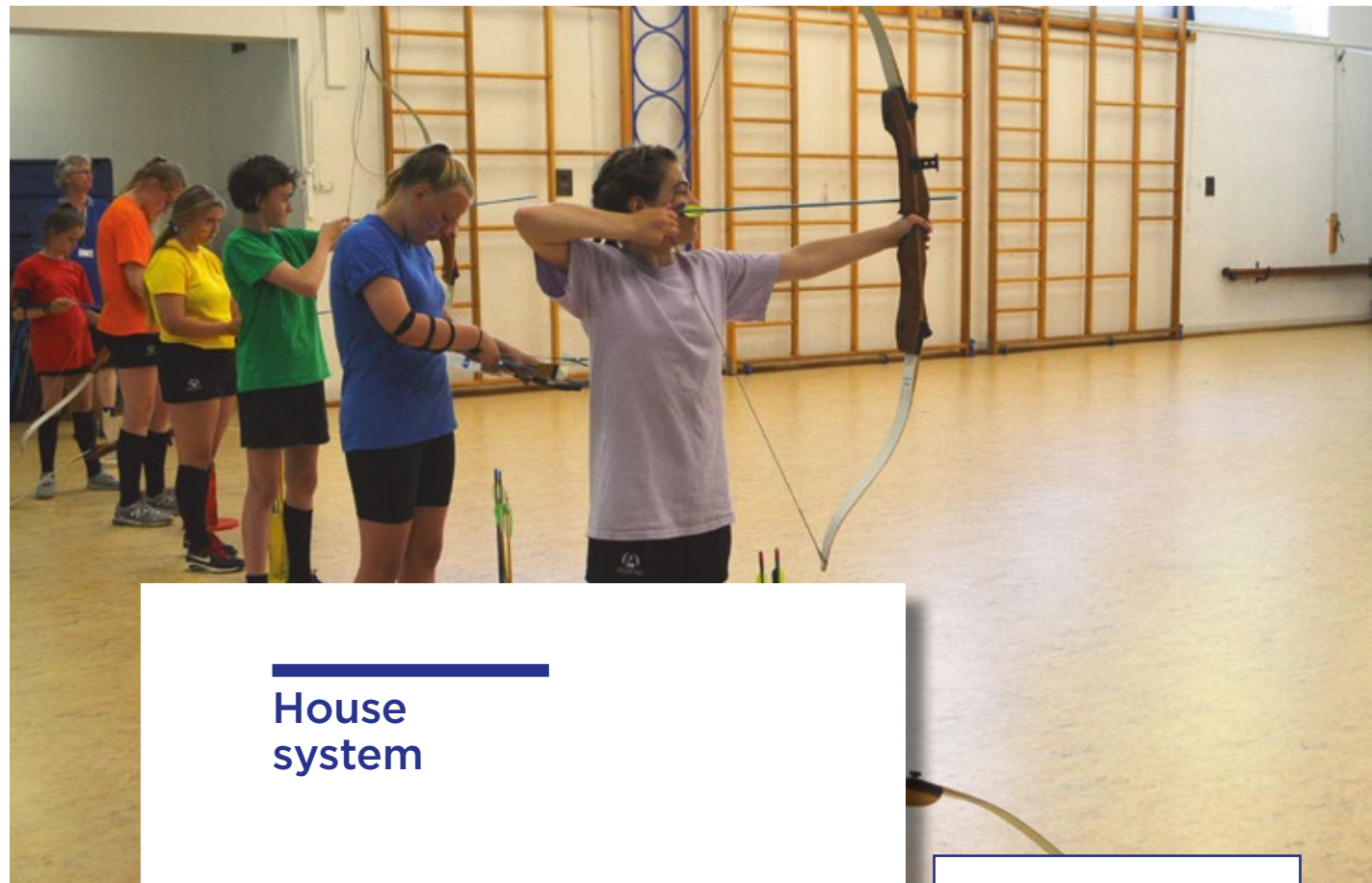
v1
 The moon is like a pearl that shines
 through the night.
 The precious gem glows in the moonlight.
 Don't crack the shell it holds the pearl.
 well.
 The secrets inside it will never
 tell.

v2
 Birds ~~that~~ fly as high as the
 golden sun.
 Whilst you and I are down here
 having fun.
 Chorus

The waters ^f like an ocean of dreams ^{em}
~~that~~ ~~keeps~~ me alive, ~~keeping~~ ~~me~~ ~~alive~~
 and it's keeping
 The wind is like a force within that
 makes me want to try.
 The waves are ^{the} power that lifts me
 off my feet



The boys' choir (below) won the Outstanding Performance trophy at Camborne Music Festival.



House system

Students compete in a wide range of house activities.

Our house system encourages fun, cooperation and healthy competition across the school. There are six houses, all of which are made up of tutor groups from each year, so students can develop valuable relationships with younger and older peers.

Children earn points through house activities, such as archery and pancake races, which they can then put towards prizes. This way, our students have fun while working together and getting involved in the school.





Students compete in a wide range of house activities.

Uniform

School uniform plays an important role at Mounts Bay. We believe that looking ready to learn helps students to focus on their studies, and makes them aware of upholding the school's reputation.

By taking fashion out of the equation, the uniform also promotes equality and creates a sense of belonging, as all students see themselves as equal members of the Academy community.

“The uniform is great. It looks really smart, and we all feel like we’re part of the school. You also get House Colours on your tie, which shows your achievement and gives the uniform a bit of colour.”



ETHICALLY

XJ

The Life of Buddha

Buddha



Siddhartha Gotama (Buddha) was born a child of King of Lumbini, Nepal, India as well as king. He and his family was obviously very wealthy and he had alot of expences and riches. His family saw something special about Buddha and only thought that

was because he was going to be king. Buddha's parents were extremely protective and he had enough.

His parents did not want him to see all the death, illness, poverty and old people. It was also rough and was scared his son will be : robbed, attacked or caught a disease. Years of keeping him indoors Buddha snapped he thought to him self 'Why can't I go outdoors?' So one day he did, he went hunting. While hunting, he saw people : suffering, dying, in poverty and old homeless people. He was so confused! He didn't know people lived like that he thought every one lived in palaces like him. He couldn't bare it! He couldn't live knowing people were dying and suffering and he had everything! So he did something about it, he ran away! He ran away with nothing but a toothbrush and clothes. He wanted to teach all about Buddhism telling that you should leave all your possessions and care for and love every living creature : plants, animals and humans. You should accept donations given by other fellow Buddhists like : food, water and clothes.

This narrative about the life of Buddha was written by Xenios, one of our year 7 students.





Our students get involved with the community organising cake sales, clean-ups and fun runs.



Responsibility

Beyond the school, we encourage our students to care about local, national and global issues. From getting involved in community projects and charity events to discussing the big things that Cornwall, the UK and the world face in the 21st century, our students develop a sense of their responsibility.

A defining 21st-century concern is sustainability, in terms of the ecosystem, the economy and culture. We weave these ideas into the curriculum, inspiring our students to become drivers for change. We also lead by example: solar panels provide the Academy with clean energy, and our media building, the Qube, won a sustainability award from the Royal Institute of British Architects. Our ambition is to become an eco-school by 2020.



Our students get involved with the community organising cake sales, clean-ups and fun runs.



Student voice

It's important that students can express themselves, share ideas and create conversations. Our media club is open to all students, and gives them the opportunity to examine the world and voice their views. Eight times a year, students also get together to give us feedback, so we can continue to improve all aspects of Academy life.

We even welcome our students into the fold as decision makers, inviting them to governors' meetings and getting them involved in school projects. Our students have played a part in designing our Garden Building, our bathrooms, and even this prospectus! We want them to see that they really can make a difference and shape the world around them.



In my opinion, learning about religion is vital, as it makes you aware of the world around you. It helps to develop your views/beliefs, and teach you about others. Racism has been a colossal problem in past years, by learning about different cultures, it encourages maturity and realising that equality is extremely important. The fight for equal rights and overall equality, will continue and by teaching people, more specifically children, this early on in their life, it will improve their morals, opinion and the way they treat others. As well as helping them learn/understand others, it helps them get a better understanding of who they are.

The school teaches us to treat people with respect. No matter what age, race and gender we are all on the same planet and have rights. Being rude/disrespectful to others, won't make you a better person or the world a better place. By listening to others beliefs and opinions, we get to know and respect that person, as well as expand our knowledge involving the world around us. We become aware of issues/disagreements, and begin to build an opinion. As well as a strive to make things better. Slowly but surely, we can make the world a much nicer/comfortable place for future generations.

The first event that we worked on was raising money for the charity water aid. We did this by having a blue themed non-school uniform day which everyone paid a pound towards, a cake sale in reception at both breaks and an easter run ~~where~~ where people purchased bunny ears and ran around the school 3G. It was a successful event.

The second event that we worked on was raising money for Green Peace and for the school to have re-cycling bins. We did this by having a green themed non-school uniform day which everyone paid a pound towards and a cake sale that took place at both breaks. The money we raised was split in half to go towards the charity and school.

I am passionate about many issues but the most important one for me is making sure that everyone in the world has food and water. I was lucky to organise a charity event that supported one of my beliefs as I could express my beliefs for the matter. Everyone in this world deserves food and water as we need it to survive.



Year 7 students explored the theme of creativity during adventure learning week.



At Mounts
there are so
opportunities
it's a warm
welcoming place
and you'll enjoy
every day of the
year.
Anya Burlton



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At Mounts Bay Academy
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and you'll enjoy every
day of the week.

Anya Burlton, Head Girl

2016-17

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and waterless printing technology.
Over 97% of print-produced waste
is recycled.

