Final Space School 2018 Details

October 2018

# Deadlines

**Passports** from Lockerbie Academy, Moffat Academy and Dumfries High School must be brought into or sent to Lockerbie Academy to arrive no later than Friday 5 October. Please send/deliver to Mr Hargreaves in the Science Store.

Sanquhar passports should be handed to Mr Ormrod by this date.

Please fill out a new medical form (attached) and return it to **Mr Hargreaves** by **28th September**, even if medical conditions remain the same. This ensures we have the most up to date details.

We have parental consent letters from most of you and will contact those who haven’t provided one yet.

# Medical

Any prescription medicines need a doctor’s certificate and must be in original packaging.

We also need a duplicate of any prescription medicine (in original packaging) for us to carry as backup if your child loses theirs.

Please send these in at the same time as the passport. These will be handed over to parents at the end of the trip.

# Travel

Students **must wear** their Space School **T-shirts** and **hats** on the days of travel there and back and on the first day of space school when the group photo is taken.

Students from **Lockerbie Academy, Moffat Academy and Dumfries High School** meet at **Lockerbie Academy** at **00:50** (morning!) on **Sunday 14 October**. **Sanquhar students** will be picked up from **Abington Service Station** and Mr Ormrod will give further details to them.

Transport to/from Glasgow Airport is by Houston’s Coaches.

The outward flights are:

**KL1470 06:05 from Glasgow to Amsterdam Schiphol (arrive 08:45)**

**KL661 09:50 from Schiphol to Houston (arrive 13:10)**

Please note that the connection time at Schiphol is very tight. Students must be ready to leave the plane and belt across one of the busiest airports in the world in a very short time. There must not be any dawdling during the transfer – including toilet trips – so if you think you need to pay a call do it on the Glasgow – Schiphol flight!

We will be transferred to the hotel by coach after arrival in Houston.

On Saturday 20th October 2018:

Coach to airport.

**KL662, 15:05 Houston to Schiphol (arrive 07:15 on 21st)**

**KL1475, 12:05 Schiphol to Glasgow (arrive 12:40).**

**On Sunday 21st October**

**Arrive Glasgow Airport at 12:40** Houston’s coach back to Lockerbie dropping off at **Abington Services, Moffat High Street and Lockerbie Academy**.

**Hold baggage** allowance is **ONE** case no more than **23 kg sized** up to **total dimensions of 158 cm**.

**Cabin baggage**: handbag/laptop bag up to **40cm x 30cm x 15cm** for stowage under the seat and 1 additional cabin bag up to **55cm x 35cm x 25cm** in overhead locker, all combined hand baggage must not exceed **12 kg**.

**Liquids may** only be carried in containers holding **100ml or less**.

They must be carried separately in **a single bag** which is:

* Transparent and resealable
* No larger than 20cm x 20cm (8in x 8in)
* Able to close properly with all the items inside
* At security control, place the bag in the tray with your other items.
* Liquids in containers over 100ml will not be permitted through security – please pack them in your hold baggage instead.

Do not pack suntan lotion in hand luggage, place this in the hold baggage. Also avoid carrying tweezers, nail files, and scissors in hand luggage and do not take pen knives in any baggage.

# Customs/Immigration

You will have to fill in a customs declaration form on the aircraft and an example is given at the link below. You can’t import food to the US so anything uneaten must stay on the aircraft. The questions that will be on the form are given on the link: it would be helpful if you went through these with your child before departure to take away some of the stress at customs. <https://www.cbp.gov/travel/us-citizens/sample-declaration-form>

The immigration procedure is slow so expect to queue. You will be asked questions about the reason for your visit and will have fingerprints taken. Be polite, co-operate and, above all, don’t think these people understand even the mildest form of humour. You can expect to get some fairly aggressive questioning about whether you have parents in the US or are planning to work there. Just answer honestly that you’re going to NASA Space School at Johnston Space Centre and point at the numerous T-shirts/hats that match yours.

We have one US and one Canadian passport holder in the group who will get through quickly so once you’re through please find them and stick together at the exit from immigration but before the escalators until everyone is there. If you hang around just beyond the immigration desks you will be impolitely moved on.

# Hotel

**SpringHill Suites Houston NASA/Webster, 1101 Magnolia Ave, Webster, TX 77598**. **Tel. 001 281 332 2999.**

We have permission from the council to use the hotel pool and fitness suite(fitness suite for over 16s only) but only if Mr or Mrs Hargreaves or Mr Ormrod is present to supervise students. Do not abuse this trust or everyone will be banned from the pool. This is also a pool for all of the hotel guests so do not take over the pool so that others feel they cannot use it.

Make sure you take **US-UK mains travel adaptors** and check that what you take will work on 110 V 60 Hz supplies.

All rooms have wifi but make sure you sign in for the basic service which is free. An enhanced service is available but two years ago cost $5 per day. If you choose to sign up for the enhanced service **you will be responsible for paying the charge**.

# Mobile Phones

Unless you have a package that covers the USA call and data charges are high. Typically 90p per minute to send or receive calls, 40p per text and £8 per MB of data. So **TURN MOBILE DATA OFF** and make sure you have a cap on charges in case you accidentally use it. The hotel wifi and free, fast broadband connection at NASA make contact via email/internet very easy.

# Money

Take money to cover 4 meals outwith the package deal and to cover shopping/snacks gifts etc. We suggest that no more than $200 is taken.

Tipping is, unfortunately, a fact of life in the US. We will have a collection for the bus driver and ViE rep at the end of the week so allow approximately $3 per day (i.e. about $20) to cover this.

Beware of people offering services (e.g. porters). Carry your own bags or be prepared to tip.

# Kit List

Make sure you have toiletries and a change of clothes in your cabin baggage in case your hold baggage is delayed. Last time two didn’t turn up until the Monday.

No fluids in bottles more than 100 ml in cabin baggage.

Contact lenses / glasses – bring spare pair in carry-on luggage

Casual clothes for day/evening

Jumper(s) and or fleece(s)

Hats

Medication (2 sets) in original containers – include copy of prescriptions

Money

Money belt

Nightclothes

Pen & paper

Plastic bag(s) for dirty clothes!

Socks

Sunglasses

Sun hat

Swimming gear

Toiletries

Trainers

T-shirts

Trousers/jeans/shorts

UK/US plug adapters

Underwear

Waterproof coat

Waterproof sun cream

# Behaviour

This trip has taken two years to plan and cost people a lot of money. Bad behaviour will not be tolerated and will result in the individual being sent home with all associated costs being paid by parents/guardians.

RULES:

1. Look out for one another.
2. No cliques.
3. Follow instructions.
4. Do not leave the hotel for any reason without informing Mr Ormrod or Mr/Mrs Hargreaves.
5. Do not go in and out of other people’s rooms. If you need to meet up, do so in the foyer or room we’ve been allocated. It is only fair that students are allowed some peace in their rooms.
6. In hotel rooms by 22:00 unless activities go on later. No wandering the corridors, and the hotel clearly states that there should be no noise and lights off at 22:30
7. Do not be late for any activity. You will hold up the whole party and we might miss an activity as someone is not ready.

# Drop off and Pick up

Do not be late for drop off on Sunday, we will not wait for you. If you miss the bus you will either have to meet us at the airport or if we’ve already passed through check in we will go without you. There will be no refund.

Likewise, we will have had a hard week taking excellent care of your special ones. Please ensure that someone is there at the pick-up point on our return on Sunday afternoon. We do not want to hang around waiting but will want to get to bed. Mr and Mrs Hargreaves will need to sign off the trip and drive home.

# Contacts

In the case of an emergency in Scotland, it would be appreciated if you could ring Mrs Hargreaves or Mr Ormrod to pass on this information to your child. We are in loco parentis and know when the right time would be.

Main point of UK contact is the council emergency number, 030 3333 3000.

Hotel from UK: +1 281 332 2999

NASA: +1 281-483-0123 JSC-public-inquiries@mail.nasa.gov

Twitter @LOCKNASA2018

<https://www.mrsphysics.co.uk/surprisephysics/category/spacephysics/>

Our Visions in Education Rep is Joyce Tobias

| D&G Regional Space School / STEM Mission to Mars / Springhill Suites, Houston | | |
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| **DAY ONE** | 03:05 | Check-in at Glasgow International Airport for KLM Royal Dutch Airlines Flight # 1470 |
| 14-Oct-18 | 06:05 | Departure of KLM Royal Dutch Airlines Flight # 1470 for Amsterdam Schiphol |
| Sun | 08:45 | Arrive Amsterdam |
|  | 09:50 | Departure of KLM Royal Dutch Airlines Flight # 661 for Houston, Texas |
|  | 13:10 | Arrive George Bush Houston Intercontinental Airport; Houston, Texas |
|  | <----> | Gather luggage & prepare for departure |
|  | 14:10 | Transfer to Springhill Suites NASA/Webster |
|  | 15:10 | Arrive at Springhill Suites, meet your Ambassador and check-in |
|  | 17:00 | Visions Welcome & Safety Meeting |
|  | <----> | Dinner on own |
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| **DAY TWO** | 07:00 | Breakfast at Hotel |
| 15-Oct-18 | 07:45 | Transfer to Johnson Space Center |
| Mon | 08:00 | Check-in at Space Center Houston |
|  | 08:10 | Space Center Welcome |
|  | 08:30 | **Johnson Space Center Tram Tour** |
|  | 10:00 | **Room Orientation Binder** |
|  | 10:30 | **Rocketry Overview** |
|  | 11:00 | **Lunch at NASA** |
|  | 11:30 | **Rocketry Build** |
|  | 14:15 | **Mars Habitat & Planet Pioneers Research for Mars Habitat** |
|  | 15:15 | **Swing Test & Safety** |
|  | 16:00 | **Debrief & Dismiss** |
|  | 16:00 - 17:00 | Free time in Space Center |
|  | 17:00 | Transfer to hotel |
|  | 19:00 | **Pizza Night at Hotel in the Orion Room** |
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| **DAY THREE** | 07:00 | Breakfast at Hotel |
| 16-Oct-18 | 07:45 | Transfer to Johnson Space Center |
| Tues | 08:00 | Check-in at Space center Houston |
|  | 08:15 | **Rocket Safety & Launch** |
|  | 09:15 | **Rocket Park Tour** |
|  | 09:45 | **Habitat Overview** |
|  | 10:30 | **(Begin work on) Martian Habitat Design & Build** |
|  | 11:00 | Lunch at NASA |
|  | 11:30 | **(Continue work on) Martian Habitat Design & Build** |
|  | 15:00 | **Habitat Presentations** |
|  | 16:00 | **Debrief & Dismiss** |
|  | 16:15-17:00 | Free time in Space Center |
|  | 17:00 | Walk to Luby's |
|  | 17:15 | **Dinner at Luby's** |
|  | 18:15 | Transfer to Cinemark 18 for Movie Night |
|  | <----> | **Movies at Cinemark 18** |
|  | <----> | Walk to hotel |
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| **DAY FOUR** | 07:00 | Breakfast at Hotel |
| 17-Oct-18 | 07:45 | Transfer to Johnson Space Center |
| Wed | 08:00 | Check-in at Space Center |
|  | 08:15 | **Guest Speaker in Mission Briefing Center** |
|  | 09:00 | **VEX Robotics Overview** |
|  | 09:30 | **(Begin work on) VEX End Defector Build Challenge** |
|  | 11:00 | Lunch at NASA |
|  | 11:30 | **(Continue work on) VEX End Effector Build** |
|  | 12:00 | **Coding Overview** |
|  | 12:30 | **End Effector Build Coding & Competition** |
|  | 15:00 | **Mars Yard End Effector Competition** |
|  | 16:00 | Debrief & dismiss |
|  | 16:15 | Transfer to hotel |
|  | 17:15 | Transfer to Fuddruckers 2040 NASA Road 1, Houston |
|  | 17:30 | **Dinner at Fuddruckers Burgers** |
|  | 18:30 | Transfer to Baybrook Mall |
|  | 18:45-21:00 | **Free Time at Baybrook Mall** |
|  | 21:00 | Transfer to hotel |

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| **DAY FIVE** | 07:00 | Breakfast at Hotel |
| 18-Oct-18 | 07:45 | Transfer to Johnson Space Center |
| Thurs | 08:00 | Check in at Space Center |
|  | 08:15 | **Thermal Tile & Cryogenics Challenge** |
|  | 09:15 | **Communication Tower** |
|  | 09:45 | **Thermal Tile & Cryogenics Testing** |
|  | 11:00 | Lunch at NASA |
|  | 11:30 | Depart Space Center for Neutral Buoyancy Lab |
|  | 12:00 | **Neutral Buoyancy Lab Tour** |
|  | 13:15 | Transfer to Williams Pool |
|  | 13:45 | **Water Robotics Activity** |
|  | 15:45 | **Debrief & Dismiss** |
|  | 16:00 | Transfer to hotel |
|  | 17:45 | Walk to Main Event |
|  | 18:00 | **Dinner & Bowling (2 hrs) at Main Event Entertainment Center** |
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| **DAY SIX** | 07:00 | Breakfast at Hotel |
| 19-Oct-18 | 07:45 | Transfer to Johnson Space Center |
| Fri | 08:00 | **Starship Gallery Tour** |
|  | 08:45 | **Prepare for Graduation Brunch** |
|  | 09:00 | **Graduation Brunch Festivities Begin** |
|  | 10:00 | **NASA Astronaut Presentation** |
|  | 11:00 | **Independence Plaza Tour** |
|  | 12:00 | **Wrap-up Surveys; Graduation Concludes** |
|  | 13:30-16:00 | **Free Time to Explore Exhibits at Johnson Space Center** |
|  | 16:30 | Transfer to the Kemah Boardwalk |
|  | <---> | **Free Time to Explore Kemah Boardwalk / Attractions are 'On Own'** |
|  | 19:30 | **Dinner at Bubba Gump / Kemah Boardwalk** |
|  | 20:30 | Transfer to hotel |
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| **DAY SEVEN** | 6:30 - 9:30 | Breakfast at Leisure |
| 20-Oct-18 | 10:00 | Check-out of hotel |
| Sat | 10:30 | Load coach and prepare for departure |
|  | 11:05 | Transfer to IAH- George Bush Intercontinental Airport for Departure |
|  | 12:05 | Arrive at IAH & check in for KLM Royal Dutch Airlines flight 662 |
|  | 15:05 | Departure of KLM Royal Dutch Airlines Flight 662 for Amsterdam Schiphol |
| 21-Oct-18 | 07:15 | Arrive Amsterdam |
|  | 12:05 | Departure of KLM Royal Dutch Airlines Flight 1475 for Glasgow |
|  | 12:40 | Arrive Glasgow |
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| Please note that the above itinerary is given as a sample for guidance. While Visions in Education will endeavour to adhere to this | | |
| programme as closely as possible, it may be necessary for operational reasons to make modifications in resort. | | |
| **All flight times shown are local and may be subject to schedule changes at the discretion of the airline / motor coach.** | | |
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