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| Session leaders:  Contact number:  Date: | | |
| Session theme: | Earth and Space | |
| Session objectives: | Learn about Tim Peake and the Soyuz, and then build our own parachutes to land our own Egg Spaceships. | |
| Careers links: | Astronauts!  Also, the scientists and engineers whose work supports the space program. | |
| Starter questions: | We will look at some photos of Tim Peake and his Soyuz capsule and think about what it would be like to be an astronaut. Who would like to go to space? What might the challenges be? How would you get back? | |
| **Activities** | **Notes** | **Materials** |
| (45 mins)  Title: Building an egg parachute  Aims: Design and build parachutes to bring an egg safely down to Earth.  Context: The egg is our own version of the Soyuz capsule, which needs a parachute to land safely back to Earth after taking astronauts to outer space.  Description: Discuss Tim Peake, astronauts, the Soyuz capsule etc.  Build parachutes in small teams using equipment provided. What factors do we need to consider (e.g. size and shape of parachute)? What do we already know about air resistance and why parachutes work?  Test our parachutes – which ones work, which ones don’t, which are the slowest (we can calculate speed with distance and time) and therefore safest, etc.  Reflective questions: Who designed the best parachute? What made this one the best? Do you think you could be an astronaut? How about an engineer or scientist who designs and builds the equipment, like the parachutes? | Supervision needed when using safety scissors, hole punch, etc.  Choking hazard with plastic bags to be aware of. | Session planners to provide:  Pictures of Tim Peake and the Soyuz (to stimulate discussion), plastic shopping bags, bin bags etc. (for parachutes), eggs, sandwich bags (to contain eggs in case they smash)  School to provide:  Hole punch, scissors, string  ***N.B. Please let me know if you don’t have hole punch/scissors/string and we can provide if necessary*** |
| Summary: What did we learn, what are the real world applications, how does this link to careers? |  |  |