What makes our Science curriculum exceptional?

1. It is underpinned by aims, values & purpose *E.g.* ***Article 29 UN Convention of Rights of the Child:*** *Education must develop every child's personality, talents and abilities to the full. It must encourage the child's respect for human rights, as well as respect for their parents, their own and other cultures, and the environment.* Our Guiding Principles are: • To provide an education which develops the whole child. • To provide a broad and balanced curriculum with a strong focus on enrichment opportunities. • To teach children to understand their own rights and to respect the rights of others.	**2. It develops the whole person – knowledge, skills, understanding & attitudes.** **Knowledge:** Develops scientific knowledge and conceptual understanding in every lesson **Skills:** Enquiry, thinking critically, active learning, observation, identifying, classifying, gathering, recording, measuring, reporting, presenting, communicating, data finding **Understanding:** To understand about the children's place and the impact they can have on the world around them – good and bad. **Attitudes:** conservation, recycling, saving resources. A Rickmansworth Park we believe Science is Learning for Life.	**3. It is broad and balanced.** Scientific knowledge, conceptual understanding, nature, processes and methods of science as well as its uses and implications are taught in every class every year in an environment that is suited to the children's ability and understanding. Science always plays an important role in class assemblies and classroom displays.
4. There is clear progression in subject knowledge and skills. The Science Curriculum develops a clear progression in Scientific knowledge from YR-Y6 shown in our 'Progression of Skills' and 'Progression of Vocabulary' documents. The Science Curriculum Journeys map the progression path each child takes throughout the school.	**5. It is filled with rich first-hand experiences.** Hands on activities in all lessons, producing useful, relevant and appropriate, qualitative and quantitative outcomes.	**6. It is flexible and responsive to individual needs and interests.** Teacher source their lessons from 'Developing Experts' or 'Twinkl'. These resources offer lesson plans, PowerPoints, documentaries and news footage differentiated and challenging for all years.
7. It has an eye on the future and the needs of future citizens. Children are taught about the recycling of resources and the impact of greenhouse gases on our planet as well as the detrimental effect plastic and fossil fuels are having on the Earth. This goes hand-in hand with our Eco-Warriors and UNICEF Rights Respecting groups which champion environmental issues.	**8. It encourages the use of environments and expertise beyond the classroom.** Children use our school environment regularly to collect data and observe wildlife and vegetation from the first term in Reception. We collect litter and grow vegetables.	**9. It makes meaningful links between areas of knowledge across the curriculum.** The Science curriculum is often taught with links to other curriculum areas e.g. literacy letters to recycling plants, computing – posters warning of the impact of pollution, maths – data collection and graphs etc.
10. It has a local, national and global dimension. Our science curriculum is geared so that the children understand about their place and impact on the world around them Attitudes: conservation, recycling, saving resources.	**11. It is supported by high quality Subject Leader CPD.** Rickmansworth Park value working with STEM Ambassadors who are experts in their field. They visit school to talk on areas studied. This enriches our Science curriculum.	**12. SMSC is embedded in the curriculum.** Science supports spiritual development by providing many opportunities for children to think and spend time reflecting on the amazing wonders that occur in our natural world.

Based on the article 'What are the hallmarks of a great curriculum framework?' – National College

Ofsted style curriculum questions. . .

What are the objectives for the curriculum at RPS?

- **To provide a broad and balanced curriculum with a strong focus on enrichment opportunities.**
- **To provide a curriculum which develops the whole child.**
- **To teach children to understand their own rights and to respect the rights of others.**

Article 29 (goals of education) Education must develop every child's personality, talents and abilities to the full. It must encourage the child's respect for human rights, as well as respect for their parents, their own and other cultures, and the environment. (UN Convention on the Rights of the Child)

What are your objectives as Subject Leader?

- **To ensure the curriculum content is broad and balanced.**
- **To ensure that, wherever possible, the curriculum is enriched with hands on opportunities, visits and visitors.**
- **To ensure there is a clear progression of skills and knowledge throughout the school.**
- **To ensure that the curriculum reflects the needs and interests of our school community.**
- **To ensure that, wherever applicable, links are made to the UN Convention on the Rights of the Child.**
- **To ensure that the curriculum is supported by high quality CPD.**

How do you know the teaching delivers the objectives in your subject area?

- **Book scrutiny**
- **Peer observations**
- **Informal learning walks**
- **Pupil Voice interviews**
- **Planning overview**
- **Staff meetings – sharing best practice**
- **Class assemblies**
- **Displays**
- **Subject Leader Termly reviews**
- **Pupil outcomes and assessment data**

Based on the article 'What are the hallmarks of a great curriculum framework?' – National College