



Noam Primary School

Science Curriculum Policy

November 2016

Noam Primary School

Date	Review Date	Subject Leader	Nominated Governor
31/10/2016	31/10/2018	Mrs Sue Vecht	Mrs Tova Solomon

We believe this policy relates to the following legislation:

- Education Act 1996
- Education Act 1997
- Standards and Framework Act 1998
- Education (National Curriculum) (Temporary Exceptions for Individual Pupils) (England) Regulations 2000
- Education Act 2003

The following documentation is also related to this policy:

- Designing and Timetabling the Primary Curriculum - a practical guide for Key Stage 1 and 2 (Qualifications and Curriculum Authority 2002)
- National curriculum in England: Science programmes of study

We believe science education 'provides the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They should be encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.' (The National Curriculum in England Framework Document (DfE) 2014)

We have a duty to ensure compliance with the revised National Curriculum and with the application of the new programmes of study and attainment targets. We understand that 'the National Curriculum provides pupils with an introduction to the core knowledge that they need to be educated citizens.'

We believe it is essential that this policy clearly identifies and outlines the roles and responsibilities of all those involved in the procedures and arrangements that is connected with this policy.

Aims

- To ensure that all pupils develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
- To ensure that all pupils develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.
- To ensure that all pupils are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

(The National Curriculum in England Framework Document (DfE) 2014)

- To promote the teaching of numeracy and literacy within all subjects.
- To share good practice within the school.
- To work with other schools to share good practice in order to improve this policy.

Roles and Responsibility for the Policy

Role of the Governing Body

The Governing Body has:

- appointed a member of staff to be responsible for the curriculum leadership of Science;
- delegated powers and responsibilities to the Headteacher to ensure all school personnel and stakeholders are aware of and comply with this policy;
- responsibility for ensuring compliance with the legal requirements of the National Curriculum;
- responsibility for ensuring that the school complies with all equalities legislation;
- responsibility for ensuring funding is in place to support this policy;
- responsibility for ensuring this policy and all linked policies are maintained and updated regularly;
- responsibility for ensuring all policies are made available to parents;
- nominated a link governor to visit the school regularly (Mrs Shelley Kelaty), to liaise with the Headteacher and the coordinator and to report back to the Governing Body;
- responsibility for the effective implementation, monitoring and evaluation of this policy

Role of the Headteacher and Senior Leadership Team

The Headteacher and the Senior Leadership Team will:

- ensure all school staff are aware of and comply with this policy;
- work closely with the subject leader and the link governor;
- ensure compliance with the legal requirements of the National Curriculum;
- consider disapplying a pupil from all or part of the National Curriculum for a period of time if this will benefit the child;
- encourage parents to take an active role in curriculum development;
- provide leadership and vision in respect of equality;
- provide guidance, support and training to all staff;
- monitor the effectiveness of this policy by;

Noam Primary School

- observing teaching and learning
 - planning scrutinies and learning walks
 - displays
 - discussions with pupils
- annually report to the Governing Body on the success and development of this policy

Role of the Subject Leader

The Subject Leader will:

- lead the development of this policy throughout the school;
- work closely with the Headteacher, the nominated governor and SENCO;
- be accountable for standards in this subject area;
- monitor standards by;
 - auditing the subject area
 - review of the scheme of work
 - monitoring teachers planning
 - lesson observations
 - scrutinising children's work
 - discussions with pupils
- ensure continuity and progression throughout the school;
- devise a subject improvement plan;
- provide guidance and support to all staff;
- provide training for all staff on induction and when the need arises
- attend appropriate and relevant INSET;
- keep up to date with new developments;
- undertake an annual audit and stock take of resources;
- purchase new resources when required and in preparation for the new academic year;
- undertake risk assessments when required;
- review and monitor;
- annually report to the Governing Body on the success and development of this policy

Role of the Nominated Governor (Mrs Tova Solomon)

The Nominated Governor will:

- work closely with the Headteacher and the subject leader;
- ensure this policy and other linked policies are up to date;
- ensure that everyone connected with the school is aware of this policy;
- attend training related to this policy;
- report to the Governing Body every term;
- annually report to the Governing Body on the success and development of this policy

Role of Teachers

Teachers will:

- comply with all aspects of this policy;
- work closely with the subject leader to develop this policy;
- devise medium and short term planning;
- plan and deliver good to outstanding lessons;
- plan differentiated lessons which are interactive, engaging, of a good pace and have a three part structure;
- have high expectations for all children and will provide work that will extend them;
- assess, record and report on the development, progress and attainment of pupils;
- achieve high standards;
- celebrate the success of pupils in lessons

Role of Pupils

Pupils will

- listen carefully to all instructions given by the teacher;
- ask for further help if they do not understand;
- participate fully in all lessons;
- develop an enquiring mind by asking questions related to the subject;
- participate in discussions concerning progress and attainment;
- treat others, their work and equipment with respect;

Role of Parents/Carers

Parents/carers will:

- be aware of and comply with this policy;
- be encouraged to take an active role in the life of the school by attending:
 - parents and open evenings
 - parent-teacher consultations
 - curriculum development workshops
- be encouraged to respond to curriculum information newsletter;
- be informed via termly newsletters of their child's topics;
- be asked to take part in periodic surveys conducted by the school on curriculum development;
- encourage effort and achievement;
- encourage completion of homework and return it to school;
- provide the right conditions for homework to take place;
- expect their child to hand in homework on time;
- join the school in celebrating success of their child's learning;

Policy Procedure

Teaching and Learning Style

We use a variety of teaching and learning styles in order to develop children's knowledge, skills and understanding.

Curriculum Planning and Organisation

Teachers collaborate on the planning of the subject to ensure parity in provision and to share expertise. Curriculum planning is managed in three phases namely:

Long Term Planning (ladder objectives)

- details what is to be taught over the year
- provides teaching guidelines and overall objectives for each year group for the whole year

Medium Term Planning (topic web and termly overview)

- organises the subject into termly or half-termly sections
- is more detailed and the objectives are more specific in nature
- is developed by the teachers, who respond to the needs of their pupils
- ensures a balanced distribution of work is undertaken across each term

Short Term Planning

- details the subject curriculum over the week
- plans lessons in detail with specific class objectives
- sets individual learning goals for each pupil

Links with ICT

The use of information and communication technology will promote, enhance and support the teaching of this subject area.

Differentiation

The main purpose of differentiation is to challenge and raise standards of learning by ensuring that curriculum objectives are accessible to all our children despite their backgrounds or abilities. We see differentiation as a form of integration and not exclusion.

Differentiation must reflect the learning objective and can be achieved in a variety of ways either by task, by support or by outcome and should be chosen by fitness for purpose.

We want all children to achieve success, therefore we will ensure they are given differentiated tasks that are matched to their level of attainment so that they can demonstrate successfully what they know, understand and can do.

Noam Primary School

The main feature of effective differentiation is good planning resulting in effective teaching and learning with children making good progress. Also we expect to see in all classes interested well motivated children responding to challenges, children working productively on task and being aware of their own progression.

Special Educational Needs

We want pupils with identified special educational needs to have full access to all subjects of the National Curriculum with teachers planning lessons that have no barriers to pupils achieving and with appropriate targets relating to the subject.

Assessment for Learning

Teachers will:

- carry out continuous assessment;
- use short-term assessments matched to the teaching objectives to adjust their planning;
- make comments in pupil's books related to the teaching objective;
- carry out medium-term assessments to measure progress against key objectives to adjust planning;
- carry out long-term assessment to assess progress against school and national targets;
- use long-term assessments to help them plan for the next academic year;
- inform parents and carers of their child's progress and targets

Monitoring & Review of the Subject

Monitoring of standards of children's work and the quality of teaching is the responsibility of the subject coordinator supported by the Headteacher and the SLT.

Standards will be monitored by:

- looking at pupils work
- subject observations
- pupil discussions
- audit of subjects
- scrutiny of planning
- general curriculum discussions

Contribution of the Subject to other Areas of the Curriculum

Science contributes to many subjects within the primary curriculum and every opportunity is sought to draw scientific experience out of a wide range of activities. This allows children to begin to use and apply scientific skills and knowledge in real contexts.

Resources

The school has some resources to support the teaching of this subject throughout all year groups. Resources are upgraded and replenished when the need arises. An annual stock

Noam Primary School

take and audit is undertaken by the subject coordinator in the summer term in preparation for the next academic year.

Raising Awareness of this Policy

We will raise awareness of this policy via:

- the school website
- staff meetings and insets
- meetings with parents such as introductory, transition, parent-teacher consultations
- meetings with school staff
- communications with home such as weekly newsletters
- reports such as annual report to parents and Headteacher reports to the Governing Body

Training

All school staff:

- have equal chances of training, career development and promotion
- receive training on this policy on induction which specifically covers:
 - National Curriculum programmes of study and attainment targets for all subjects
 - teaching and learning
 - planning
 - assessment
 - key skills
- receive periodic training so that they are kept up to date with new information

Monitoring the Effectiveness of the Policy

The practical application of this policy will be reviewed every two years or when the need arises by the coordinator, the Headteacher and the nominated governor.

Headteacher:		Date:	
Chair of Governing Body:		Date:	