K'NEX Training Workshops

(Workshops lasting 90 mins or ½ day)

Getting started with K'NEX and Kid K'NEX

To help first-time educational users of K'NEX and Kid K'NEX master the basic techniques.

Who is the workshop for: Anyone planning to use K'NEX and/or Kid K'NEX for educational purposes, including teachers, classroom support staff, home educators, club leaders and staff, family learning practitioners, post-16 educators and volunteers.

Workshop content:

1. Presentation - Introduction to Kid K'NEX.
2. Practical session - A simple Kid K'NEX model.
3. Presentation - Introduction to K'NEX.
4. Practical session - A simple K'NEX model.
5. Presentation - Educational uses of K'NEX

Building bridges with K'NEX

To demonstrate how K'NEX can be used for building bridges to meet the needs of the Design & Technology curriculum at Key Stages 1, 2 and 3, and/or to provide a basis for an exciting project in out-of-school settings such as family learning. The workshop is based on the K'NEX "Introduction to Structures: Bridges" set.

Who is the workshop for: Teachers and educators

Workshop content:

1. Presentation - An introduction to building bridges with K'NEX.
2. Practical session - A K'NEX truss bridge from instructions.
3. Presentation - Using the K'NEX "Intro. to Structures: Bridges" set.
4. Practical session - Reinforcing your K'NEX Bridge.

Building machines with K'NEX

To demonstrate how K'NEX can be used to build simple machines, so as to meet the needs of the DT curriculum at Key Stages 1, 2 and 3. The workshop is based on the K'NEX "Introduction to Simple machines: Gears" set.

Who is the workshop for: School teachers at Key Stages 1, 2 or 3 (ie teaching Infant pupils aged 5 to 7, Junior pupils aged 7 to 11, or Lower Secondary pupils aged 11 to 14).

Workshop content:

1. Presentation - An introduction to building machines with K'NEX.
2. Practical session - build a K'NEX Fan from instructions.
3. Presentation - Using the K'NEX "Intro. to Simple machines: Gears" set.
4. Practical session - Convert your fan into a wind machine.

Building simple robots with K'NEX

To demonstrate how K'NEX and Kid K'NEX can be used for building simple robots, so as to meet the needs of the Design & Technology curriculum at Key Stages 1, 2 & 3.

Who is the workshop for: All teachers and support staff at Key Stages 1 and 2, and Design & Technology teachers and support staff at Key Stage 3.

Workshop content:

1. An introduction to building simple robots with K'NEX
2. Practical session - Build a Kid K'NEX robot.
3. Using Make'n'Go and the Egg-Box to build simple Kid K'NEX and K'NEX robots.
4. Practical session - Build a K'NEX robot.

Developing Numeracy skills with K'NEX

To demonstrate how K'NEX can be used to help children and adults to develop numeracy skills, including number, shape, space and measure.

Who is the workshop for: Teachers, adult tutors, family learning practitioners, and anyone else helping children and/or adults to develop numeracy skills.

Workshop content:

1. Presentation - Using K'NEX for Number, Shape, Space and Measure
2. Practical session – Hands-on activities to develop skills in number, shape, space and measure

Using Kid K'NEX with 3 to 7 year olds

To demonstrate how Kid K'NEX can be used to help children aged 3 to 7 develop skills and experience relevant to Early Years and Key Stage 1.

Who is the workshop for: Anyone working with children aged 3 to 7, including teachers, NNEBs, LSAs, playgroup leaders, club leaders, playscheme staff and family learning practitioners.

Workshop content:

1. Presentation - Using Kid K'NEX with 3 to 7 year olds
2. Practical session - Building Kid K'NEX models from instruction cards
3. Presentation – Educational uses of Kid K'NEX
4. Practical session - Structured play with Kid K'NEX.

Visit the "sessions" page at **www.knexusergroup.org.uk** to identify your local K'NEX Training Consultant

K'NEX Training Workshops

(Workshops lasting ½ day or all day)

Family Learning with K'NEX

To help Family Learning practitioners learn how the K'NEX construction kit might assist them to meet their learning objectives.

Who is the workshop for: Anyone involved in family learning, including family literacy, family numeracy, family IT, and all other types of family learning. The workshop will be of interest to staff who manage, and to staff who deliver, family learning programmes.

Workshop content:

1. Introduction to K'NEX
2. Build a K'NEX and a Kid K'NEX model
3. Why use K'NEX in family learning?
4. A simple K'NEX challenge
5. Structured play with Kid K'NEX
6. K'NEX family learning events
7. A motorised K'NEX challenge

Using K'NEX in children's clubs and childcare schemes

To help organisations who run children's clubs, playschemes and summer camps learn how the K'NEX construction kit can assist them to meet their learning objectives.

Who is the workshop for: Anyone running or working at a children's club or childcare scheme, including after-school clubs, cubs, brownies, beavers, rainbows, science clubs, playschemes, summer camps, etc.

Workshop content:

1. Introduction to K'NEX
2. Build a K'NEX and a Kid K'NEX model
3. Why use K'NEX in children's clubs and childcare schemes?
4. A simple K'NEX challenge
5. Structured play with Kid K'NEX
6. K'NEX sessions in clubs and childcare schemes
7. A motorised K'NEX challenge

Accredited learning

Please note that K'NEX all-day training workshops can usually be delivered as accredited level 2 progression units if required.

K'NEX Engineering Day

To provide a whole day of K'NEX engineering projects for teachers and educators, either on their own, or together with their students.

Who is the workshop for: Primary or Secondary school teachers, FE/HE Lecturers, and other educators (eg in family learning, children's clubs and childcare schemes). If students participate, they may be of any age group, eg KS1, KS2, KS3, KS4, post-16, or families.

Workshop content:

1. Presentation – Introduction to K'NEX, Building bridges with K'NEX.
2. Practical session - A K'NEX truss bridge
3. Presentation - Building machines with K'NEX.
4. Practical session - build a K'NEX Fan from instructions.
5. Presentation – Setting K'NEX challenges
6. Practical sessions - A K'NEX Engineering Challenge.

Setting K'NEX Challenges

To help educational users of K'NEX learn how to develop and deliver K'NEX challenges in their organisation.

Who is the workshop for: Anyone considering setting K'NEX challenges in their organisation, including teachers, classroom support staff, club leaders and staff, family learning practitioners, post-16 educators and volunteers. Note that prior experience with K'NEX is required for this workshop.

Workshop content:

1. Presentation - Setting K'NEX challenges.
2. Practical session - A simple K'NEX challenge.
3. Presentation - Managing K'NEX challenges.
4. Practical session - Techniques and Handy Hints.
5. Questions and answers.

Some comments from delegates:

"Thank you for a very valuable, informative and enjoyable learning experience"

"Fascinating to see how K'NEX can be used to provide sophisticated structural engineering and manufacturing engineering challenges."

"A very interesting and enjoyable session"

"I found the workshop inspiring. Thank you!"

Delivering K'NEX sessions for your children

Please note that the K'NEX Training Consultants are also able to provide K'NEX sessions for your children!

Visit the "sessions" page at **www.knexusergroup.org.uk** to identify your local K'NEX Training Consultant