



# K'NEXT Generation

Workshop Guide

Kid K'NEX<sup>®</sup>

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**Workshop Information** (for information about workshop content please visit <https://www.knextgeneration.co.uk> )

Workshop	Age	Maximum number pupils	Responsible persons <sup>1</sup>	Duration (mins)	Room size	Furniture	Power supply	Set-up (mins)	Turn-around (mins)	Clear-up (mins)	Other
<b>Dangerous Dinosaurs</b>	N-P1	N:20 P1:25	N:2 P1:1	N: 45/60 P1: 60	Hall/Gym <sup>4</sup>	3 chairs	Not required	45	15	20	None
<b>Magnificent Minibeasts</b>	N-P3 <sup>2</sup>	N:20 P1:25 P2/3:30 Comp:25	N:2 P1-3:1	N: 45/60 P1-3:60							
<b>Under the Sea</b>	N-P3 <sup>2</sup>	N:20 P1:25 P2/3:30 Comp:25	N:2 P1-3:1	N: 45/60 P1-3:60							
<b>Barmy Bear Buggies</b>	P1/2	P1:25 P2:30	1	60							
<b>Number Bots</b>	P1-3 <sup>2</sup>	P1:25 P2/3:30 Comp:25	1	60							
<b>K'NEX Town</b>	P2-3 <sup>2,3</sup>	P2/3:30 Comp: 25	1	60							
<b>Recycling Robots</b>	P2-3 <sup>2,3</sup>	P2/3:30 Comp: 25	1	60							

1. Refers to minimum number of persons provided by the school, who MUST remain in the workshop at all times to comply with Disclosure requirements and K'NEXT Generation Health & Safety policies and Insurance. For nursery/pre-school a third person should be available for toilet visits. More helpers are always welcome. Extra support for ASN pupils provided by the school at school's discretion.
2. P4 can be included with composite classes
3. P1 can be included with composite classes
4. Space needs to be clear of all furniture and at least the size of a badminton court

## Curriculum for Excellence 1

All K'NEXT Generation workshops are designed to support, complement and enhance the Curriculum for Excellence (CfE).

The scope and ethos of the workshops use the Principles, Values, Purposes and Cross-cutting themes of CfE as their foundation:

- Principles – Challenge & enjoyment, Breadth, Depth, Progression, Personalisation & choice, Coherence and Relevance
- Values – Wisdom, Justice, Compassion and Integrity
- Purposes – Successful learners, Confident individuals, Responsible citizens and Effective contributors
- Cross-cutting themes – Sustainability, Enterprise, Creativity and Citizenship,

K'NEXT Generation workshops are cross-curricular and provide opportunities to explore principles and concepts in the following curriculum areas:

- Health & wellbeing, Languages, Mathematics, Sciences, Social Studies, Expressive Arts and Technologies.

The workshops focus particularly on “STEAM” subjects:

- Science, Technology, Engineering (and Enterprise), Art and Mathematics (and Numeracy).

Workshop content is designed and built around the Experiences & Outcomes (E&Os) and the Benchmarks of CfE at Early, First, Second and Third levels (see following page for details).

The workshops employ hands-on, challenge-based, active learning which provides opportunities for pupils to develop their teamwork skills, resilience and creativity.

K'NEXT Generation aims to provide workshops that are fun and challenging and that help to develop skills for life.

**Curriculum for Excellence 2: Experiences & Outcomes (E&Os) and Benchmarks**

Workshop	Health & Wellbeing (HWB)	Modern Languages (MLAN)	Literacy & English (LIT)	Mathematics (MTH)	Numeracy (MNU)	Sciences (SCN)	Social Studies (SOC)	Expressive Arts (EXA)	Technologies (TCH)
<b>Dangerous Dinosaurs</b>	0-11a 0-14a 0-23a 0-24a 1-11a 1-14a 1-23a	1-01b 1-05b	0-01c 0-02a 0-04a 0-09b/0-31a 0-19a 1-02a 1-04a 1-09a 1-10a	0-16a 0-19a	1-03a 0-01a 0-02a 0-03a 0-07a			0-06a 1-06a	0-06a 0-09a 0-11a 1-06a 1-09a 1-12a
<b>Magnificent Minibeasts</b>						0-01a 1-01a			
<b>Under the Sea</b>									
<b>Barmy Bear Buggies</b>									
<b>Number Bots</b>						0-04a			
<b>K'NEX Town</b>							1-14a		
<b>Recycling Robots</b>						1-15a 1-20a	1-08a		

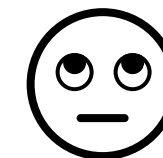
The workshops support the E&Os by providing a relevant practical activity, however, the workshops may not provide the complete experience as detailed in the Benchmarks.

**Follow-on Activities 1: Pupil review template for Early & First Level pupils.**

My name \_\_\_\_\_

Workshop name \_\_\_\_\_

My drawing



## Follow-on Activities 2:

1. Repeat the challenge with Kid K'NEX available in school using a different book or theme as an introduction.  
Alter team members so that learning can be shared.  
Push-along versions of the models can be built (following the remote-control workshops).
2. Use photographs/videos taken during workshop as a basis for discussion or question/answer sessions about the models built during the workshop.
3. Ask pupils to tell, write or draw stories about the models they built during the workshop.
4. Make a wall display of the drawings and stories.
5. Ask pupils to design new Kid K'NEX models on paper first and then try to build them with Kid K'NEX available in school.
6. Help pupils to draw maps of their school/village/town.  
Hide 'treasure' in the classroom/school and provide a treasure map for pupils to find it (following K'NEX Town workshop).
7. Arrange a bug hunt (following Magnificent Minibeasts Workshop).
8. Arrange a rock-pooling activity (following Under the Sea Workshop).
9. Help pupils to carry out a reduce/re-use/recycle review of class/school procedures (following Recycling Robots workshop).

## K'NEXT Generation Risk Assessment - KID K'NEX workshops

(not all items/actions apply to all workshops)

Hazard			Initial Assessment			Control	Residual Risk		
Action/Item	Hazard Effect	Population at Risk	Hazard Severity	Likelihood of Occurrence	Risk Rating	Controls required	Hazard Severity	Likelihood of Occurrence	Risk Rating
Carrying boxes, during set-up & clear-up	Muscle injury/strain	1 6 (lifting helper)	4	2	8	<ol style="list-style-type: none"> <li>1. Correct lifting procedures employed.</li> <li>2. Two people to carry heavy equipment when required.</li> <li>3. Lifting/moving aids used when appropriate/available.</li> </ol>	4	1	4
Moving furniture during set-up & clear-up	Muscle injury/strain	1 6 (lifting helper)	4	2	8	<ol style="list-style-type: none"> <li>1. Correct lifting procedures employed.</li> <li>2. Two people to move heavy equipment when required.</li> <li>3. Lifting/moving aids used when appropriate/available.</li> </ol>	4	1	4
Obstacles in aisles, work area and on floor	Trips and falls	1 2 3 4	3	2	6	<ol style="list-style-type: none"> <li>1. All personal belongings to be cleared from work area.</li> <li>2. No running allowed.</li> <li>3. Equipment overspill on floor to be minimised.</li> <li>4. Adult supervision.</li> </ol>	3	1	3
K'NEX Boxes	Pinching injury	1 2 3 4	1	4	4	<ol style="list-style-type: none"> <li>1. Boxes provided with lids open or ajar.</li> <li>2. Verbal warning given if necessary.</li> <li>3. Adult help provided.</li> </ol>	1	2	2

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<b>CONT</b>									
K'NEX Rods	Penetration, stabbing wounds	2 3 4	4	2	8	1. Verbal warning given as necessary. 2. Adult supervision.	4	1	4
K'NEX Connectors	Finger pinching	2 3 4	1	2	2	1. Verbal warning given as necessary. 2. Adult supervision.	1	1	1
Small pieces of K'NEX	Choking	2 3 4	4	2	8	1. Verbal warning given as necessary. 2. Adult supervision.	4	1	4
Clip boards	Finger pinching	2 3 4	1	3	3	1. Clip boards provided with paper in place and collected in same way. 2. Adult supervision.	1	1	1
Pencils	Stabbing injury	2 3 4	2	3	6	1. Pupils familiarity with equipment. 2. Adult supervision.	2	2	4
Dismantling models	Flying pieces in eyes	1 2 3 4	2	3	6	1. Verbal warning given. 2. Adult supervision. 3. Appropriate time allocated for task completion.	2	2	4
Remote controls	Penetration, stabbing wounds	2 3 4	4	3	12	1. Equipment modified to protect aerial tip with rubber ball. 2. Regular equipment checking & maintenance. 3. Adult supervision.	4	1	4
Batteries	Acid burns	1 2 3 4	4	2	8	1. Regular equipment checking & maintenance. 2. Batteries contained in compartments requiring a tool to open or are taped closed. 3. Adult supervision.	4	1	4

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<b>CONT</b>									
Batteries	Choking hazard	3 4	5	2	10	1. Batteries contained in compartments requiring a tool to open or are taped closed. 2. Adult supervision.	5	1	5
Batteries	Electric shock	2 3 4	2	2	4	1. Regular equipment checking & maintenance. 2. Batteries contained in compartments requiring a tool to open or are taped closed. 3. Low voltages used. 4. Adult supervision.	2	1	2
Loud noises	Fright	2 3 4	1	4	4	1. Responsible person consulted prior to use. 2. Verbal warning and demonstration provided.	1	2	2
Floor tiles	Tripping	1 2 3 4	3	3	9	1. Verbal warning given as necessary. 2. Adult supervision.	3	2	6
Signed <i>Ann Larkham</i>								Date 01/08/2019	

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Population Codes: 1. Employees. 2. Paying public. 3. School/General groups. 4. Visitors (non-paying). 5. Contractors. 6. Others (specify).

**Contact for additional help or support:** [info@knextgeneration.co.uk](mailto:info@knextgeneration.co.uk)

**Useful links:**

K'NEXT Generation: <https://www.knextgeneration.co.uk/>

K'NEX User Group: <https://www.knexusergroup.org.uk/en/knex-user-group.html>

K'NEX: <https://www.knex.com/>

Twinkl: <https://www.twinkl.co.uk/>

Crickweb: <http://www.crickweb.co.uk/Early-Years.html>

CBeebies Numeracy: <https://www.bbc.co.uk/cbeebies/topics/numeracy>

NASA for Educators: <https://www.nasa.gov/stem/foreducators>

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