INFANT CLASSES – FORCES

Teacher Guidelines:

- Pp. 107-116
- Exemplar 2: A unit of work based on forces p 38
- Exemplar 31 page 109

Linkages:

- Living Things - Myself
- Materials - Properties and characteristics of materials

Integration:

- Language Development – English and Gaeilge
- Maths – measurement/sorting
- Visual arts
- SPHE
- PE

INFANTS – FORCES

Content Objective:

- **EXPLORE, THROUGH INFORMAL ACTIVITY WITH TOYS, FORCES SUCH AS PUSHING AND PULLING.**

Some suggested activities:

- Sort into sets a variety of toys and everyday objects into groups, which ones require a push or a pull to make it move?
- Are there other ways of making the toys move? E.g. blowing, slope etc
- Can you make the toys go faster or slow down?
- Can you think of different ways of stopping the toy?
- Which toys move fastest or are easier to push?
- Which toys/objects need a big push/pull to move them?
- Which toys/objects need a small push/pull to move them?

Some suggested investigations:

- Can toys with wheels travel quickly, a long distance?
- How can we move a heavy box of toys?

Some suggested designing and making:

- Something to help teacher move a heavy box of toys. (Children may design it while teacher makes it)

INFANTS – FORCES

Content Objective:

- **EXPLORE HOW THE SHAPE OF OBJECTS CAN BE CHANGED BY SQUASHING, PULLING AND OTHER FORCES.**

Some suggested activities:

- Sort a variety of objects into sets, some that can change shape e.g. plasticine, “Blu-Tac”, sponge, eraser, modeling clay, rubber ball etc and others that cannot e.g. wooden block, toy car, lego block, uni-fix cubes, marbles etc
- Can you change the shape of an object?
- How can you change the shape of an object?
- Are you pulling or pushing to change the shape?
- Which objects return to the same shape after they have been pulled/squeezed?
- See exemplar 31 Teacher Guidelines p109

Some suggested investigations:

Some suggested designing and making:

INFANTS – FORCES

Content Objective:

- **INVESTIGATE HOW FORCES ACT ON OBJECTS:**
  Through experimenting with different materials group objects that will float or sink.
  Push objects into water.

Some suggested activities:

- Sort a variety of objects into groups: those that float and those that sink.
- Do all heavy things sink?
- Do all light things float?
- How can you make something sink?
- What forces do we use when we play in the school yard, the public park play ground? (see-saw, swing, slide etc)
- See exemplar 30 page 108

Some suggested investigations:

- Does the shape make a difference? Using the same amount of clay or plasticine…can I make it sink and float?

Some suggested designing and making:

- different boat shapes from clay