

CLIMATE CHANGE LESSON PLAN - How has technology changed over the years?

For Grade 4

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Description of Activity: Learners investigate how toys have changed over 3 generations - from grand parents to parents to themselves - specifically with regards to electrically operated toys. Draw conclusions about other electrical appliances

Discuss advantages and disadvantages of electrical and manual toys and appliances. Make connections between use of electrical equipment and climate change.

This lesson could be completed over 2 30 min lessons or over 1 week.

Learning Area/s: Technology	Learning Outcomes: Technology: LO2 & LO3
Assessment Standard/s: LO2: AS2 Processing. Learner demonstrates knowledge and understanding of the properties of common materials and how these properties influence the effectiveness of products LO3 AS2 & AS3 Learner able to identify impact of technology and bias in technology	Subject Integration: Mathematics, English Language, Natural Sciences and Life Orientation
Background knowledge required by learners: Formulation of questionnaires. Drawing and interpretation of graphs	Materials Needed: Examples of old fashioned toys and modern toys
Activity Procedure Lesson 1: Two days before the lesson, learners are asked find out from their parents and grand parents what toys they played with when they were children. Learners must write the details of their parents / grandparents toys in their homework book. If parents and grandparents still have examples of their toys learners can ask if they can bring them to school for the day. The day before the lesson learners are asked to bring one of their own toys to class, and those of their parents / grand parents if able to. Learners can sit in a circle with their toys. The teacher puts other examples in the centre of the circle for all the learners to see. Each learner shares with the class what they found out from their parents / grandparents and shows the class their own toy. Discuss some of the major changes with the toys produced several decades ago and today. Lesson 2: Learners discuss the different types of materials used to produce toys. What are some of the impacts on the environment when producing the toys? Are the impacts on the environment in present toy production the same as what it was when toys were produced in the learners' parents / grandparents' era?	

Discuss advantages and disadvantages of electrical toys and link these to electrical appliances and in turn link these to the impacts on the environment and climate change.

Is it possible to go back to the old ways? What are the advantages/disadvantages of both?

Assessment Method:

Give the learners a choice: Show their understanding of the connection between electricity use and climate change by means of: oral or drama (group) or poster