

Magnet Induction

Use Animated GIF in Keynote to demonstrate understanding of induction

Activity

Using Keynote, create an animated GIF through a series of slides to depict what happens when a bar magnet is used to induct an iron bar creating a temporary magnet.

Objectives

Students will be able to understand how a magnetic object can be induced to become a temporary magnet

Extensions

Students can create an animated GIF depicting how a temporary magnet loses its magnetism through being hit by a hammer repeatedly, instead of just once

Have a go



- 1 Launch Safari and source for a picture of a bar magnet.
- 2 Tap on ⊕, then 🖼️ to add the photo of the bar magnet
- 3 Launch Keynote 🗂️ and add tap on ⊕, then 🖼️ to add a rectangular shape, set it as 'No Fill' and add a border.
- 4 Tap on bar magnet picture to duplicate another. Resize the duplicate to mini magnets and duplicate more of the mini magnets. Insert the mini magnets into the rectangle shape.
- 5 Tap and make 5-6 duplicates of the slide. Select on magnets and tap on 🔄 and select 'Arrange' to rotate the big bar magnet to induce the iron bar with any of the pole.
- 6 Use each slide to demonstrate the step by step stroking of the big magnet and rotate the mini magnets to show their attraction with its opposite pole. Repeat the slide until all mini magnets are aligned such that the iron bar becomes a temporary magnet.
- 7 Export the Animated GIF into the Photos library. Tap on 😊 > Export > Animated GIF. Ensure Slide Range includes all the slides with images. Tap on Export and then Share. Then select Save Image.
- 8 The animated GIF will appear in your Photos library. You can insert it into another document or upload it directly for your students.

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