



## Create your own pinwheel

### BOX NOTICE

Name of the activity	Create your own pinwheel
Activity duration	1h
Material needed	Create your own pinwheel box, glue, a wooden stick, a cork, an iron pin, an A4 paper sheet
Number of pupils involved (per box)	Three or four pupils per box

### Step 1: Preparation

Before starting the activity, ask your pupils about renewable energies: what are they, and which ones can they think about? In this activity, we will focus on the wind: how can wind be used to create energy? The pupils may already know about wind turbines. Ask them how they would create one, and what elements they have to use.

### Step 2: Experiment step

Ask your pupils to work in groups of three or four pupils: do not show them the “How to create the elements” sheet just yet. Only give them the elements of the box: how would they build their pinwheel?

Once your pupils have made hypotheses, or once some groups have figured out how to build their own pinwheel, give your pupils the instruction sheet. Make sure that they understand the instructions correctly and that they do not get hurt when pinning the paper helix to the cork.



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# TECHNOLOGY

Once the pinwheel has been created, ask your pupils to blow on them: do they start spinning?

## Step 3: Storytelling

Once the pinwheels have been created, tell the story to the class. Your pupils may blow on the pinwheels as you tell them, but be careful about the noise they can make!

## Step 4: Turn the pinwheel into a crane!

Follow the instructions from the "Alternative" section of the Creation of the elements file to turn your pinwheel into a crane and start lifting items. Make sure that the items you are trying to lift are not too heavy, or the pinwheel may break.

As a follow-up activity, use the sequence 2 instructions to see how much your pupils can lift with the pinwheel. What could they think of to increase the weight they can lift?



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