

# Polar Bears Go with the Floes

Intended for tweens and families

## Modification and Preparation List

**Adapt this NASA activity for your needs!**

### In-Person Library or Outreach Program

#### Materials for the Facilitator:

- [Polar Bears Go with the Floes Activity Guide](#)
- Scissors
- Tape
- Marker

#### Materials for each group of 3-4 people

- 1 (11" x 17") *Polar Bears Go with the Floes* game board, printed in color (select "fit to size of paper" when printing ) ([Spanish version of game board](#))
- 1 set of ice floe puzzle pieces printed on cardstock
- 1 set of game pieces, printed in color on cardstock
- 1 deck of game cards, printed double-sided and in color on cardstock
- A Rules of the Game* sheet
- 1 die

#### Preparation:

*1-3 months prior to the program:*

- Review the activity facilitation guide and background information.
- Watch the [How-To Video](#).
- Prepare and distribute promotional materials for the activity, including flyers, posters, library website, online event calendar, and social media posts.



## In-Person Library or Outreach Program (continued)

1 week prior to the program (for each group of 3-4 people):

- Print copies of the game board, *Rules of the Game* sheet, puzzle pieces, polar bear cards, and both identical sets of game pieces ([Spanish version of Rules o the Game](#))
- Cut out a set of ice flow puzzle pieces for each group.
- Print, cut out, and assemble player game pieces

Day of program:

- Prepare a space with tables and chairs for participants to meet and play the game (one table and 3-4 chairs per group).
- Set out a complete game set on each table.
- Consider setting up a screen and projector to play one or more of the following videos to introduce the topic of climate change and sea ice:
  - [NASA Video: On Thin Ice: Why Ice Loss Matters](#)
  - [NASA Climate Kids Video: Oceans of Climate Change](#)
- Follow activity instructions starting on page 4 of the [Activity Guide](#) and have fun playing!

## Take & Make

### Materials List (per kit):

- 1 (11" x 17") *Polar Bears Go with the Floes* game board ([pages 16-32 of the Activity Guide](#)) ([Spanish version of Game Board](#))
- 1 set of ice floe puzzle pieces
- 1 set of game pieces
- 1 deck of game cards
- A *Rules of the Game* sheet
- 1 die

### Preparation (per kit):

- Print copies of the game board, *Rules of the Game* sheet, puzzle pieces, polar bear cards, and both identical sets of game pieces (*optional: consider laminating everything*).
- Cut out a set of ice flow puzzle pieces.



## Take & Make (*continued*)

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- Print, cut out, and assemble player game pieces.
- Put the completed game set in a container, such as a blank board game box or large envelope, to be distributed to families as a Take & Make game.