

Educational activities

Game "Punctuwool"

Objectives: Recognize the states of water and their manifestations in various natural phenomena (6 to 9 years old).
Understand the concepts of changes in the states of matter, in particular solidification and condensation (from 6 to 9 years old).
Know that the physical state of water depends on external conditions, notably its temperature (from 9 to 12 years old).

Material

- . 1 game board
- . 1 playing dice
- . 9 puzzle pieces and support
- . 1 "sheep" pawn
- . 16 question cards

Rules of the game

Punctuwool is a cooperative game about the water cycle. The aim of the game is that the "cloud sheep" completes a complete water cycle (that is to say, it reaches the arrival square of the game board) before until the puzzle is completely pieced together.

To do this, each player rolls the die in turn and performs the action indicated by the die:

- . Faces numbered from 1 to 5, the pawn advances the corresponding number of squares on the board.
- . Facing the character, the player places a piece of the puzzle on the support.
- . Certain squares on the board also determine different actions:



Roll the board game dice again.



Move back one space.



Move back three spaces.



Draw a card from the deck and answer the question.

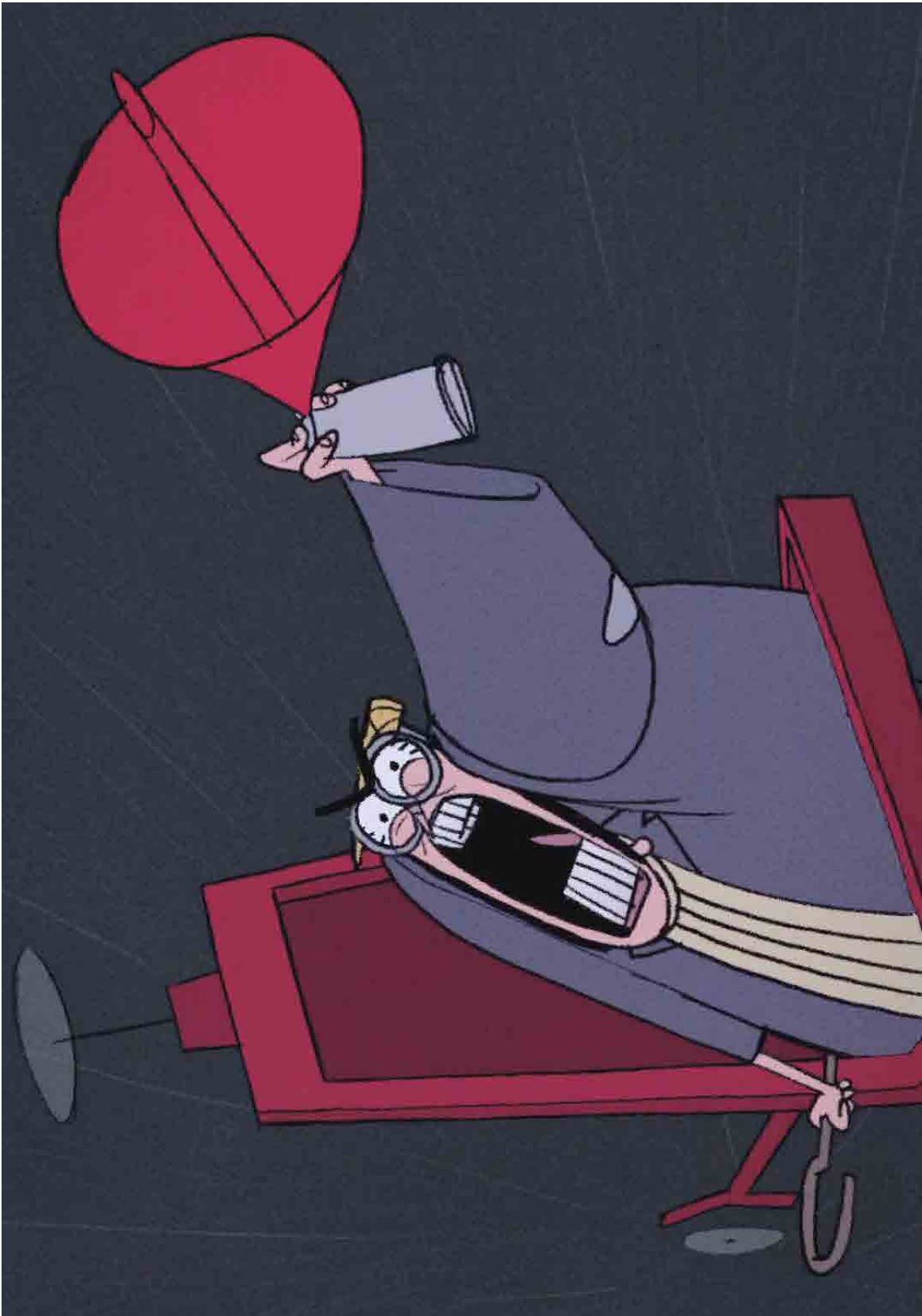
If this is correct, the player can decide either to advance 1 or 2 squares or to remove a piece of the puzzle. If the answer is wrong, nothing special happens.

The game ends either when the "cloud sheep" pawn has reached or passed the arrived square without until the puzzle is completely reconstituted (the players have then won), or once the puzzle is reconstituted (the players then lost).

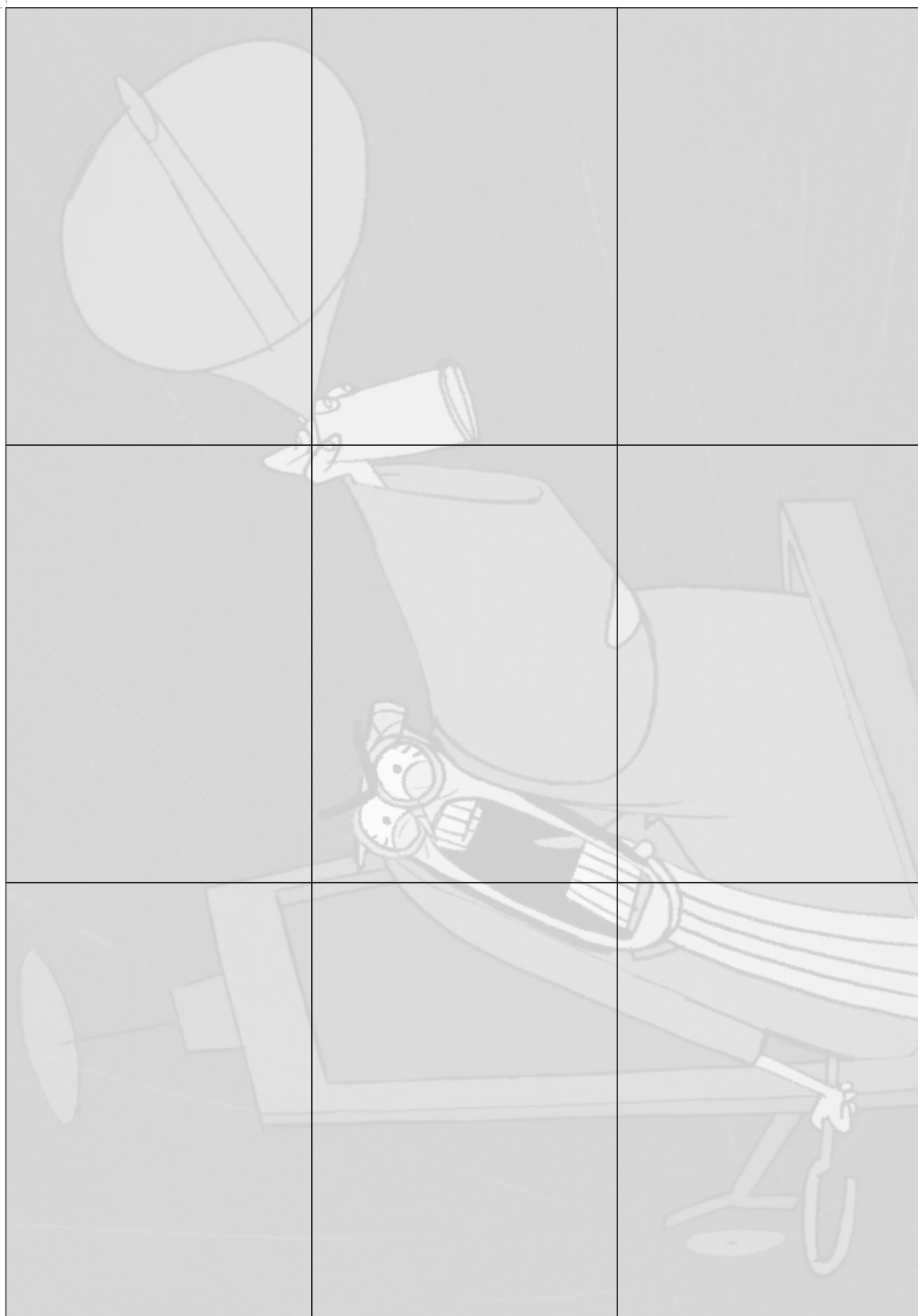
Activity proposed by Emilie from Jeux d'école based on the short film "Punctuwool".
Director: Jacob Streilein. Punctuwool © Jacob Streilein



Print and cut out the 9 pieces of the puzzle



Activity proposed by Emilie from Jeux d'école based on the short film "Punctuwool".
Director: Jacob Streilein. Punctuwool © Jacob Streilein





Print the question cards.

What are the 3 states
water?

Solid: liquid: gas

At what temperature is the water
is she boiling?

At 100° Celsius.

At what temperature is the water
does it transform into
ice ?

Below 0° Celsius.

What is the name
water transformation
liquid to solid water?

Solidification.

What is the name
water transformation
liquid to gas?

Evaporation.

What is the name
steam transformation
from water to liquid water?

Condensation.

What is the name
water transformation
solid into liquid water?

Melting.

What is the name
water transformation
solid into gas?

Sublimation.



Print the question cards.

What are the names of the bodies of water present underground?

Groundwater (or underground) tables.

What step comes next evaporation in the water cycle: runoff, precipitation or condensation?

Condensation (cloud formation).

How much water was there? earth at the time of the dinosaurs:
- Much higher than today.
- The same as today.
- Lower than today.

The same as today.

Plants and in particular forests also release water vapor. How is this phenomenon called?

Evapotranspiration.

What state is the water in? clouds: solid, liquid or gaseous?

Liquid clouds are made up of water droplets.

What are the 3 forms of precipitation?

Rain, snow and hail.

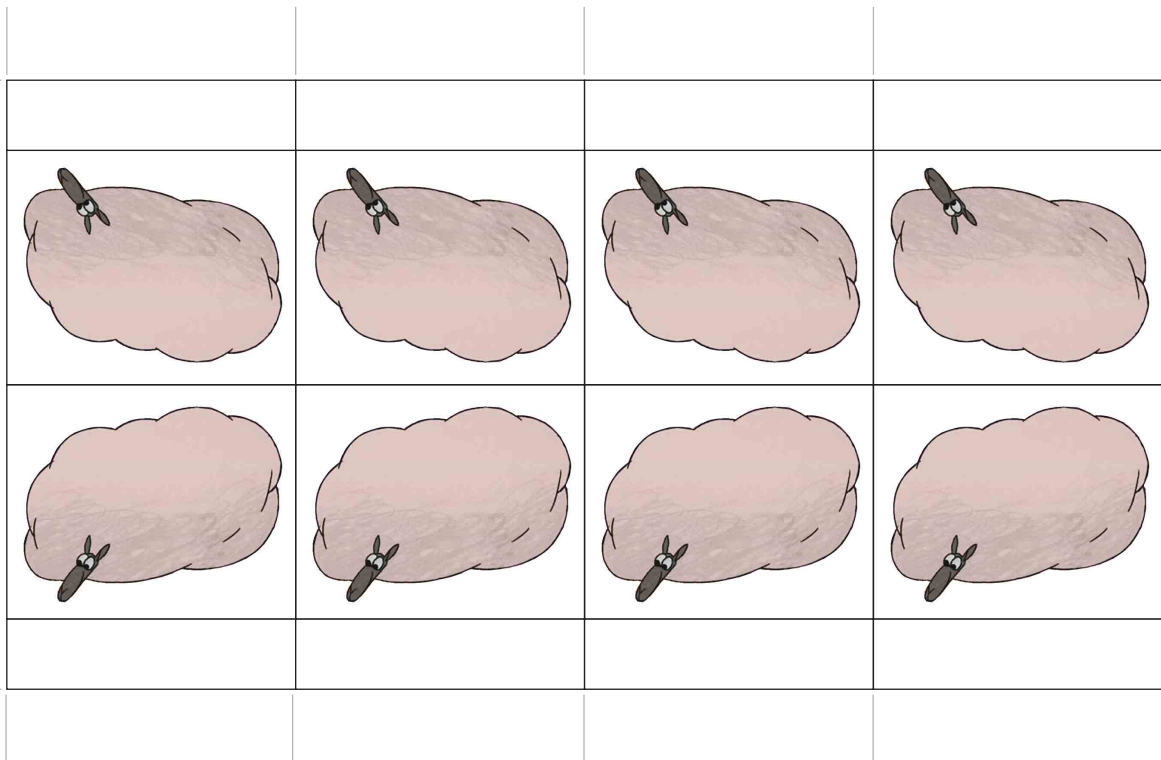
What do we call it makes rainwater join the rivers, then rivers and the sea?

The runoff.

Is snow water solid, liquid or water vapor?

Solid water.

Print tokens



Print paper dice to make or the image to stick on an existing dice.

