



important hints:

- Watch movie from 5:00 AM and answer question until 23:00.
- Answer weekend questions until Monday evening.
- Answer **exactly once**. Answers cannot be changed.
- In case of questions, ask them **before** answering via contact form.
- Start with two jokers. Gain another joker by watching 10 solution movies. Jokers are played automatically in case of need.

Shopping list for PiA – Physics in Advent 2017

www.physik-im-advent.de

- 1.)
 - a plate of milk chocolate (no nuts)
 - cutting board
 - kitchen knife
 - lamp or heater for warming the knife
- 2.)
 - two tablespoons
 - a water tap
- 3.)
 - smartphone with camera function
 - shoebox
 - yoghurt or jam jars with lid
 - water (and if available food color)
 - transparent document cover
 - strong adhesive tape
 - piece of foam rubber or styrofoam (5 cm * 20 cm)
- 4.)
 - cup with handle
 - spoon
- 5.)
 - two 20 or 50 cent coins
- 6.)
 - pine cone
- 7.)
 - plate
 - dish soap
 - paperclip
 - rubber band
- 8.)
 - raw egg
 - kitchen salt
 - dark board or plate
- 9.)
 - two small glasses, e.g. shot glasses
 - water cooker or hot tap water
 - two different food colours, e.g. blue and yellow
 - smooth plastic card the size of a credit card
- 10.)
 - tealight
 - bowl
 - ruler or something similarly shaped, at least 30 cm long and 3 cm wide



11.)

- fork
- tablespoon
- match
- empty bottle or glass

12.)

- smartphone with phyphox app

13.)

- bottle of water

14.)

- empty flavour vial (for baking)
- empty PET bottle
- water

15.)

- 2-3 mm wide household rubber band

16.)

- kitchen scale
- large transparent glass/bucket (at least 3-4 l)
- bucket (at least 0.5 l)
- 0.5 l PET bottle
- 500 g of cooking salt
- small balloon (water bomb)

17.)

- a teaspoon
- a tablespoon
- 1 m packaging cord

18.)

- a raw egg
- a hard-boiled egg
- ruler
- cutting board
- some soft towels

19.)

- empty cardboard roll (empty paper towel roll)

20.)

- slotted ladle (about 10 cm in diameter with holes)
- dish soap
- water
- lamp

21.)

- peach
- wine glass, sufficiently large for the peach to fit in
- sparkling water with a lot of carbonation

22.)

- empty toilet paper roll or paper towel roll

23.)

- postcard
- lamp

24.)

- 1-liter sealable storage bag
- tap water
- 3-5 pencils or coloured pencils
- sink or bath tub