

Months battleships

Choose five of the things in the list that your teacher gives you and write each one in (exactly) three consecutive months on the top, blank calendar, so that each month has zero, one, two or three activities, and there are fifteen activities on the calendar in total. Each activity must be in three months in a row, e.g. June, July and August (not June, August and October). Any activity can go in any months, so silly combinations like blossom in December are fine. See below for an example.

Example of a completed calendar

Jan ski	Feb ski	Mar
Apr	May camp	Jun camp
Jul camp eat ice cream	Aug eat ice cream have exams	Sept eat ice cream have exams have a barbecue
Oct have exams have a barbecue	Nov have a barbecue	Dec ski

Take turns asking each other "Do you ... in ...?" questions about things in the list to find out what is on your partner's calendar and write the activities in the blank calendar at the bottom of the page if they say "Yes, I do". Remember that they only have five different things on their timetable and each is in exactly three months in a row, so you don't need to ask about every activity in every month because:

- If they have said "Yes" about five different activities, then the other things on the list must not be on their calendar
- If they say "No, I don't" about something enough times, that must not be on the calendar at all
- If three months have an activity, the other nine months must not have that activity
- If they say "Yes, I do" about something and you later find the nine months that they don't do that thing, then you can write that activity in all the other months (because only three months will have the activities that they chose)

Whenever you think that you can guess all 15 things on your partner's calendar, you can show the calendar to them to check if you have written the things that your partner chose in the right months. If you are right, you win the game. However, if you are wrong, then you lose the game.

Blank calendars

Your calendar

Jan	Feb	Mar
Apr	May	Jun
Jul	Aug	Sept
Oct	Nov	Dec

Your partner's calendar

Jan	Feb	Mar
Apr	May	Jun
Jul	Aug	Sept
Oct	Nov	Dec

Activities list

camp

have a barbecue

pick fruit from the garden

sail

wear a scarf

wear suntan lotion

eat ice cream

have exams

plant seeds

skate

wear shorts

go to festivals

light fireworks

play rugby

ski

wear sunglasses