## MISSIDN <br> TD MRRS

## Rules



## 曰ロППе

## MISSIDN TD MARS

In a very near future, Earth's inhabitants will be forced to find new places to expand to and survive in because this planet will na longer have enaugh resaurces to meet everyane's needs.
But finding aplace that affers an enviranment where living canditions can be satisfied will not be easy.
The closest destination, with the available resources we have naw, is Mars!
Will you be able to create a new civilization an the red planet?
You will have to arganize all the arrangements to deal with this challenge, undertake a longjourney, and finally begin the actual settlement! Butyou are natalone...
All the crew members will help yau, coordinated by your Captain.
Аге you ready?
Countdawn.
10... $9 .$. ....

## Goal of the game.

MISSIUN TD MARS aims at enhancing the players' skills in taking shared decisians and acting towards common goals.
Choose your prafessianal ROLE in the MISSICN TO MARS and face the SCENARIUS by using one af the proposed STRATEGIES. Beware of the QUIRKS!
The players engage in hands-an design challenges that facus an: developing empathy, promating initiative, encourage creativity, develaping awareness, fostering active problem salving.

## Companents.

The game provides 4 decks of cards
IORDLECARDS explaining which expertises have tabeinvalvedinthe missian.

20 STRATEGIES suggesting how to carry out the tasks
20 पUIRK MOUES adding some spice to the aperations
Players can use all the materials at their disposal such as paper, pencils, boaks, small bricks, internet connection,... and their imagination etc.

## Number af players.

MISSIUNTOMRRS is designed ta beplayed by aclass argraup that canalsobe divided into several subgraups

## Time.

MISSIDNTOMARS can vary in length and can be played in multiple sessions of at least $4 \square^{\prime}$.

Far the first sessian, plan at least 2 teaching haurs, 1 in order to properly introduce the game and ane to play the first run.

## TIPS FDR TEACHERS

Yau can pre-select the cards according ta:

- yourclass level and needs
- yourstudents'interests
- curricula

Yau can allow your students to chaose their awn scenario amang the pre-selected cards ar let them pick at random.

Groups af students can wark all on the same scenario or on different ones.
Consider creating your own sets of cards and adapt the rules to your needs. Be ready to experiment and learn together with your students and most importantly...HAVE FUN!

MISSIUN TO MARS is a cooperative role-playing game where players will have to face challenges each time they draw the TASK cards, using the madality shawn an the STRATEGY cards. But beware, the QUIRK cards will set special warking conditions!

The game is played following 3 simple phases:
1 - CHOUSE THE ROLES, the captain draws the role cards ane by ane and explains them to the players. Each player can apply to only one role. Each role can be played by one ar mare players.

2 - PICK R SCENARID, the captain draws a scenario card and introduces the main quest to the graup. The players whase ROLES are indicated in the SCENARID card will be respansible far helping the captain and will be in charge of collecting and organizingall the different ideas. Their actions will be affected by one of the conditions imposed by a $\quad$ UIRK card they have to pick at randam. Each player will have to research and collect as much information as possible about the scenaria, thraugh the glasses af their chasen rale.

3- APPLY A STRATEG4, the captain draws a strategy card and the graup starts to deploy the praposed methad tawards the goal set by the SCENFRID. Each time you have to make a decisian you can choose among the methads listed in the "HDW TO MAKE BECISIDNS" bax at the end of these rules.

## Carrying outa PHASE.

QRAW: the captain draws a card from the deck
SHDW: the captain presents the contents of the card to the group of players LAUNCH: each player gathers ideas, information and materials individually and gets ready to share
ACT: the group comes tagether to practice their abilities and fulfill what's requested by the cards. Remember to use the MARTIAN METHOD ${ }^{\text {TM }}$ to take turns. WRAP UP: the captain gathers the results of everyone's experience
CLDSE: the captain closes the session and everyone cheers

## End of the game.

At the end of the game, the CAPTAIN callects all produced material and explains which results have been achieved by the graup.

Critical thinking: the pracess of questioning saurces and challenge assumptions to make well-informed judgements based an solid evidence

## $\square$ CRERTIVITT

Creativity: Thinking outside the bux and see concepts under a different light

Collaboration: Working with others efficiently to achieve a common goal

## C.M communication

Communication: conveying ideas in an effective way by using a variety of methods

## II information LITERACY

Information literary: Understanding facts, figures, statistics, data and learn to distinguish facts farm fiction

Media literacy: Understanding the methads and outlets in which infarmation is published

## TL TECHNDLDG <br> LITERACY

Technalogy literacy: Understanding the machines and applications that make the Information Age pussible and the best way to use them

## - LERDERSHIP

Leadership: Mativating and guiding a team to accomplish a common goal

Flexibility: Deviating from plans as needed and adapt to changes

INITIRTIVE

Initiative: being intrinsic mativated and starting prajects, strategies, and


- PROLUCTIVITY

Productivity: ability to priaritize, plan and manage the workload

## 든 SOCIRL SKILLs

Social skills: Meeting and netwarking with others far mutual benefit, interact effectively with others

## TYPE DF TRSK



IDENTIFT
THE PRDELEM
IDENTIF THE PROBLEM ar essential question

## -(9) DCLUMENT

OBSERVE \& $\operatorname{CDCLMENT}$ elements that contribute to the problem or question


RESERRRH current solutions


TEACH
ANDLERRN
TEACH/LEARN Skills needed to address the prablem ar question

## CREATE

CREATE anew solution or composition using your skills, processes and knowledge


SHARE your ideas/solution with others


FACIIITATE feedaack appartunities

## REFLECT

REFLECT an others' suggestions and your awn process

REVISE
REVISE your salution or composition as needed

## MARTIRN METHED

## THE MARTIAN METHOQ ${ }^{\text {TM }}$

To overcome the challenges of our Mars journey we'll need everyone's ideas. Difficult prablems will spark creative salutions and it's very natural to be eager fareveryone to hear ourstrake of genius. But can you imagine what would happen if everyone spoke at the same time?
Nat much wauld get dane and aur Mars missian wauld end up being naisy and unsuccessful.
Therefore we devised the Martian Methad ${ }^{\text {TM }}$ of communication. It's easy and fun and you only need to raise your hand in a special way. Let's imagine someone is speaking and you have something to add [criticism, a different approach or a new idea]. Loak around you: can you see any ather raised hands? If you're the first, raise your hand with QNE finger up, to signal that you'll be the next to speak when the moment comes. Raising your hand indicates you want to speak and the finger indicates your positian in line. If you see other hands raised, count the fingers raised and just add one! If three adventurers have their hand held up, raise yaurs with FDUR fingers up. If there's many of you, you canalsa use two hands!
Of course, when the speaking adventurer is dane talking, you'll have to adjust the number of fingers. If yau were halding up FOUR fingers, Lawer ane! Now you're third in line! The Martian Method™ is very pawerful, because you need to pay attention and listen to everybady coming befare you. If you dan't listen, you might get distracted and nat "update" yaur fingers, Lasing yaur place in line. Qn Mars, we talk AND we listen. That's qur superpawer!

## Tогесар:

Raising your hands signals that you want to speak.
The number of fingers raised signals your pasition in line.

## Accessibility nate:

try to find a way to help any impaired player with a fitting salution [ie. if anyone is Unable to raise an hand or to hold up fingers, prepare a series of pieces af paper with numbers going from 1 to 5, ar mare, if there's many adventurers. The relevant number card can be displayed in any way and will wark just as a raised hand].

## HDW TD MAKE DECISIDNS

## MULTICRITERIDN

Evaluate different solutions based on a set of rational and emational criteria.

1. Make a list af proposed salutions.
2. Choose 3 to 5 basic criteria against which to evaluate the proposed salutions.
3. Create a table that cross-references ideas with the different criteria.
4. Each player has 10 hearts and 5 crosses to distribute among the cells of the table based an their ratings.
5. The idea with the mast hearts and least crasses will be chasen.

OUTCDME
Tou will have a chaice made taking inta accaunt everyone's ргеferences

## TECHNICAL NAME

Multicriteria

PLAYERS
All together

## THE MAJORITY WINS

Everyone can vate far the solutian they prefer and the one with the most vates will be the ane you choose.

1. Name and describe the different solutions.
2. Everyone can vate far only one salution.
3. The salution with the mast vates will be the one chasen.

OUTCDME
Ultimately, you will have a salutian chasen thraugh vating.

## APERFECT PLAN!

Each graup thinks af an idea to salve the scenaria and describes each solution in a structured way.

1. For each idea, list on a sheet of paper: what steps you need to take, what equipment yau need ta use, how many peaple yau will need, what materials yau
2. Highlight the strong points of each idea.
3. Create a final solution sheet that combines the strengths of each list.

OUTCDME
Чロப will get a reasaned action plan.

## TECHNILAL NAME

5M: Method, Machines, Manual, Materials, Measurement.

## ALL AGREE!

Everyone can present their apinian in an qrganized way, with the aim of reaching a commandecisianforall.

1. Divide inta graups and chaose a spakesperson far each group.
2. Each spakespersan reparts the apinion af his graup to the Council of

Spakesmen.
3. If cansensus is nat reached, each dissenter presents his ar her abjection.
4. Objections are reported to the graups which must farmulate madified proposals. Then we start again from point 3 until we find a solution that is

OUTCDME
Make decisians together by each propasing their own ideas and arriving at an agreement that satisfies everyone

Cansensus method

## ASTDRM DF IDEAS

Propose ideas of all kinds, even the craziest and mast bizarre, and collect them all in amapordrawing

1. Stand in a circle. Make sure you can all see and hear each other clearly.
2. Use an abject to establish speaking turns. Only the person halding the abject in their hand will be able to speak 50 as not to interrupt athers. 3. Write down all the ideas that are proposed, without excluding any. Jain the connected ideas with lines by drawing a diagram ta hang on the wall.

OUTCDME
You will get a broad view of all the different ideas and their points of contact.

PLAYERS
All together

## THE ROUNDTABLE

A graup of "experts" will have to talk about the problem, each from a different point of view.

1. The, Äv́experts,Äப̀ sit at a table facing the rest of the class.
2. Each expert will tell their idea on the prablem to be salved.
3. Companions can ask the experts questions to understand more.
4. At the end, summarize the different ideas in a single speech.

DUTCDME
Yau will learn that the different positians enrich your knawledge of the tapic

## YOU ALREADY GET IN AFIGHT

Each group will propose an idea and will have to try to "defend" it

1. Prepare the room by dividing the spaces into two, with a border made, for example, of chairs ar tables.
2. Form two groups and assign each to one side of the room.
3. Each group writes their idea on a sheet of paper.
4. The graups exchange papers and will have to "defend" the ather group's solution, even if they do not agree!

OUTCDME
You will learn to understand a point of view different from yours.

