Here are four challenges to complete. They are in this gallery: Earth’s Treasury.

Do two challenges to become a researcher.

Do three challenges to become a scientist.

Do four challenges to become a professor.

Do them in any order. Good luck!

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1. On the floor close to the entrance of Earth’s Treasury you will see a big rock. Touch it. Look at it.

2. What colours can you see in this rock? Tick them. Discuss with your partner.

3. What does the rock feel like? Tick the descriptions.

4. Turn around and look at the nine rocks on the wall. Choose your favourite. Write down three words to describe it.

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5. Tell your partner about your rock. Can they guess which one it is?

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Magic minerals challenge

1. Find the Mineral diversity display near the start of the gallery.

3. Ring round the colours you can see. Can you add any missing colours?

4. Look again at the minerals. Could you sort them into groups? What groups would you put them into? Tell your partner.

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2. Minerals come in lots of different colours. Look at the ones in the display. Talk about what colours you can see.

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Star challenge

1. Look around the whole gallery with your group. There are lots of rocks, minerals, gems and metals.

2. Choose your favourite object and draw it carefully in the box below.

3. Now describe your object here:

4. Why is this your favourite object? Talk about it with your partner. Compare your favourites.

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I spy metal challenge

1. Go to Mineral wealth and Metals of the Modern Age displays in the middle of the gallery.

2. Look at all the objects in the cases. Tick the ones you can see.

3. Choose one object from the display. Write its name below.

5. Can this object be made from a different material? Talk about it with your partner.

Material facts:

- Not all rocks come from the ground. Some fall from space. They are called meteorites.
- The Earth is made of rock. It is so hot in the middle of the planet some of the rock is liquid. Sometimes that liquid bursts through the Earth’s surface. It erupts through volcanoes.
- Did you know that meteorites (rocks from space) help scientists learn about the solar system?

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Explore and Discover...

Materials

Unearth the treasure game
Here are four challenges to complete. They are in this gallery:

*Earth’s Treasury*

Do **two challenges** to become a researcher  □

Do **three challenges** to become a scientist  □

Do **four challenges** to become a professor  □

Do them in any order. Good luck!

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**Rock hard challenge**

1. On the floor close to the entrance of *Earth’s Treasury* you will see a big rock. **Touch** it. **Look** at it.

2. What colours can you see in this rock? **Tick** them.

   - Red
   - White
   - Brown
   - Orange
   - Black
   - Blue
   - Rough
   - Smooth
   - Sharp
   - Bumpy
   - Hard
   - Soft

   **Look really carefully**

   Discuss with your partner.

3. What does the rock **feel** like? **Tick** the descriptions.

   - Rough
   - Smooth
   - Sharp
   - Bumpy
   - Hard
   - Soft

   Discuss with your partner.

4. **Turn around** and **look** at the nine rocks on the wall.

   **Choose** your favourite. **Write** down three words to describe it.

   My rock is:
   1
   2
   3

5. **Tell** your partner about your rock. Can they guess which one it is?
1. **Find the Mineral diversity display** near the start of the gallery.

2. Minerals come in lots of different colours. **Look** at the ones in the display. **Talk** about what colours you can see.

3. **Ring round** the colours you can see. Can you add any missing colours?

   - Green
   - Pink
   - Red
   - Purple
   - Yellow

4. **Look** again at the minerals. Could you sort them into groups? What groups would you put them into? **Tell** your partner.

5. **Look** through the little windows. What happens to the minerals when the normal light goes out? **Tell** your partner what you can see.

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1. **Go to** Mineral wealth and Metals of the Modern Age displays in the middle of the gallery.

2. **Look** at all the objects in the cases. **Tick** the ones you can see.

3. What are all the objects in the cases made from?

4. **Choose** one object from the display. **Write** its name below.

   My object is:

5. Can this object be made from a different material? **Talk** about it with your partner.

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**Diamond is the hardest natural material found on Earth**

**Did you know that meteorites (rocks from space) help scientists learn about the solar system?**
1 Look around the whole gallery with your group. There are lots of rocks, minerals, gems and metals.

2 Choose your favourite object and draw it carefully in the box below.

3 Now describe your object here:

4 Why is this your favourite object? Talk about it with your partner. Compare your favourites.

Material facts:

- Not all rocks come from the ground. Some fall from space. They are called meteorites.
- The Earth is made of rock. It is so hot in the middle of the planet some of the rock is liquid.
- Sometimes that liquid bursts through the Earth's surface. It erupts through volcanoes.

Can you find me? I'm a mineral and contain the metal iron. What do I feel like?

Did you know that meteorites (rocks from space) help scientists learn about the solar system?