

God is Provider Teacher's Topic Guide Year 3

Topic: The Sea / Marine Life

Duration: 5 weeks

God provides through His creation (Creation Day 5)

As God made the living creatures to inhabit the Earth, He first made those that could exist in water and in the air. Some Christians accept the theory of evolution, believing that if each day was millions of years, then the 'lower forms' of life, birds and fish, existed millions of years before 'higher' land animals. However, the Bible speaks of the passing of 'evening and morning', (Genesis 1), before each new day of creation. These passages point to 24-hour days.

God said that His creation was good. To believe that birds and fish developed into higher land animals, through evolution, one must believe that there was death and suffering. That is to say, one species died out and gave way to a new species. It is therefore impossible to believe that God created animals over millions of years, involving death and suffering, (fossils), and at the same time, believe that God's creation was 'good'. A perfect creation does not involve death and suffering. Death and suffering came into existence after the creation of man, at the point of His fall from God's perfection.

Key questions

- What does it mean to be created 'according to its own kind'?
- What does God mean when He said His creation was 'good'?
- How can we help to take care of God's creatures?
- How does God use the ocean to provide for us?
- What is an ecosystem?
- Why would we call the ocean an ecosystem?

Our response to 'God is Provider'

Because God is a provider, I will...

- Trust in a mighty, supernatural God.
- Care for the universe He has created.
- Appreciate the greatness of God and recognize that He is in control of all He has made.
- Recognize that God is Lord and King of the universe and has everything in control.
- Thank God for the things He provides

Biblical stories and passages

The Creation (Genesis 1)

Genesis 1: 20-21 God said, "Let the water teem with living creatures, and let birds fly above the earth across the expanse of the sky. So, God created the great creatures of the sea and every living and moving thing with which the water teems, according to their kinds, and every winged bird, according to its own kind. And God saw that it was good."

Psalm 148 The Creation praises God.

Luke 5:1-11 - The great catch. (Shows Jesus' power over creation)

Outcomes

Students will

Knowledge

- Study the diversity of marine life.
- Understand the relationship between plants and animals in a marine ecosystem.
- Appreciate our dependence upon sea life.
- Identify habits and habitat of marine life.
- Explain the current dangers to marine life and the steps being taken in the area of environmental conservation

Skills

- Classify organisms using key words
- Draw food webs
- Observe organisms using a microscope
- Plan and conduct investigations
- Research
- Suggest ways of saving endangered species

Values

- Show environmental responsibility
- Care for creation

Activities

- Classify different type of sea creatures e.g. mammals, crustaceans, fish, whales, coral, mollusks.
- Study animal food chains and represent them in the form of a flow chart.
- Visit a sea shore of possible and observe shore life.
- Compare life on rocky shores, sandy shores, coral reefs.
- Compare differences in sea life between tropical waters and Arctic/Antarctic waters.
- Study and chart whale migration.
- List types of sea creatures used for our food.
- Discuss problems of over fishing and impact of pollution on sea life.
- Discuss impact of rising sea temperatures on marine life including coral reefs
- Discuss near extinction of rare species. What can be done?
- Make a poster to encourage care and protection of marine life.

Assessment

1. Present research on one endangered species of marine life.
2. Draw a food chain beginning with marine plants.
3. What have I learned from the study of marine life...
 - about God?
 - about doing what God wants me to do?
 - about the Bible?

Learning Connections

English: Write on how to save and protect marine species

Values education Year 3

God is Provider

Faith

We can have faith that God will provide all our needs.

Faith is...

- putting our trust in someone
- believing that a person will do as they say
- believing that someone or something will act as they are meant to act
- being confident that someone is trustworthy

Who can we trust?

We can only trust those who have proven themselves trustworthy. God, our Heavenly Father can be trusted more than anyone.

Activities

1. We can say that we trust a chair because it always supports us. We know that it won't collapse under us. Name three other things that you trust and say why you trust them.
2. Name three people who you can trust.
3. Name someone you would not trust.
4. Why can we trust God?
5. Name three Bible characters that had great faith. What did they trust God for?
6. What miracles can God do for His people today when we trust in Him?

What does the Bible say about faith?

Philippians 4:19 God will supply all your needs according to His riches in Christ Jesus.

Hebrews 11:6 Without faith it is impossible to please God.

Matthew 17:20 Faith as a grain of mustard seed.

Matthew 21:21-22 If you have faith, you can say to this mountain, 'move' and it will move.

Practical Science: Finding out about salt water

Make an Egg Float in Salt Water

<http://www.sciencekids.co.nz/experiments/floatingeggs.html>

An egg sinks to the bottom if you drop it into a glass of ordinary drinking water but what happens if you add salt? The results are very interesting and can teach you some fun facts about density.

What you'll need:

- One egg
- Water
- Salt
- A tall drinking glass

Instructions:

1. Pour water into the glass until it is about half full.
2. Stir in lots of salt (about 6 tablespoons).
3. Carefully pour in plain water until the glass is nearly full (be careful to not disturb or mix the salty water with the plain water).
4. Gently lower the egg into the water and watch what happens.

What's happening?

Salt water is denser than ordinary tap water, the denser the liquid the easier it is for an object to float in it. When you lower the egg into the liquid it drops through the normal tap water until it reaches the salty water, at this point the water is dense enough for the egg to float. If you were careful when you added the tap water to the salt water, they will not have mixed, enabling the egg to amazingly float in the middle of the glass.

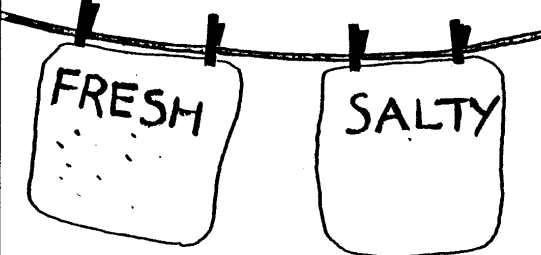

Practical Science: Fresh or salty?

Discussion:

Have you ever tasted sea water? What is it like? What makes it taste the way it does? What do we know about salt? After this experiment write down what you have found out.

What you need:

- Two 1-litre bowls of water.
- Salt
- A spoon
- Two squares of cotton cloth
- Soap
- A water-proof pen

 <p>Pour half a cup of salt into one bowl of water. Stir until no more salt will dissolve.</p>	 <p>Write <i>salty</i> on one piece of cloth. Soak it in the bowl of salt water for a few minutes.</p>
 <p>Write <i>fresh</i> on the other piece of cloth. Soak it in the bowl of fresh water for a few minutes.</p>	 <p>Dry the pieces of cloth in the sun or a warm place.</p>
 <p>Look at the pieces of cloth. Feel them. How are they different?</p>	 <p>Use the soap to wash your hands in each bowl. Does the soap work better in fresh water or salt water?</p>

Art Year 3

God is Provider

Topic: The Sea

Biblical connection: God has provided for us through the sea.

Bible art as a wall display: The great catch: Luke 5:1-11: Make a collage of the boat, nets, disciples and fish. Use netting from sacks to represent nets, or if you can't find any, glue string to the page in a crisscross design to look like a net. Draw a boat and cut it out. Children can add paper fish.

Phil 4:19 My God shall supply all your needs.

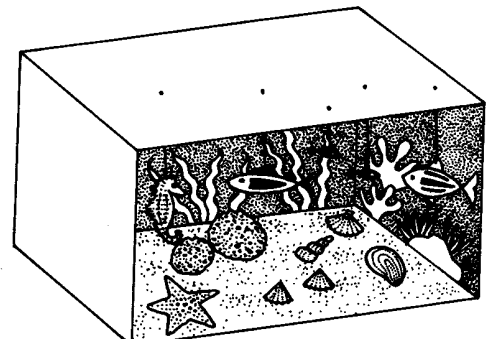
1. Drawing, painting and collage

Ask students to:

- Create a sea with thin paint, Draw colourful fish and sea creatures. Cut them out and stick them on the painted sea background.
- Make a line drawing showing a stormy sea

2. Construction

- Make mobiles of sea creatures, e.g. a matching pair of fish shapes can be placed back-to-back, glued or stapled half way around, stuffed with shredded paper, then gluing/stapling is completed to make a 3D fish which can be hung from the ceiling.
- Make a seashore scene in a sand tray or in a cardboard box. Crabs can have concertina folded legs. Add sea shells and smooth stones. Make sea weed from paper.



Make an underwater coral reef scene from egg cartons.

Coral reef

Use a piece of lace to make fan coral. Stiffen it by painting over it with Polyfilla. Let it dry, then paint it

Use a polystyrene ball and broom bristles for a sea urchin

Egg-box base: open the box out like this

Use pinkish shears to make an egg-box section into a model of a coral animal

Decorate the box with coral animals, fishes and other sea creatures

The sea 1

List 5 things that could never be placed in water.

The sea 2

What if:

All fish disappeared

The sea 3

List the disadvantages of, and make improvements to:

A fishing rod and reel

The sea 4

Draw a row boat. Now make it:

Bigger

Add something to it

Replace something

The sea 5

How many ways can you:

catch a fish?

The sea 6

Find 10 different uses for:

A fishing net

<p style="text-align: center;">The sea 7</p> <p>“People should not be allowed to go swimming at the beach.”</p> <p>Why might someone say this?</p>	<p style="text-align: center;">The sea 8</p> <p>Think of things that are the same:</p> <p>A wave A plastic drink bottle</p>
<p style="text-align: center;">The sea 9</p> <p>“coral” is the answer.</p> <p>Make up 5 questions.</p>	<p style="text-align: center;">The sea 10</p> <p>Brainstorm solutions for:</p> <p>How to encourage people not to litter on beaches.</p>
<p style="text-align: center;">The sea 11</p> <p>Design a machine for:</p> <p>Digging worms out of the sand</p>	<p style="text-align: center;">The sea 12</p> <p>Design a crab catcher using:</p> <p>String A plastic container Seaweed A rock</p>